



Hazardous Materials

Shipping Guide





FedEx Ground Package Systems Inc. is committed to the safe transportation of hazardous materials. It is very important that each person engaged in the transportation of hazardous materials become thoroughly familiar with the Title 49CFR (Code of Federal Regulations). This guide is intended only to assist you in your preparation of hazardous materials shipped via FedEx Ground Package Systems Inc. It is the shipper's responsibility to ensure each hazardous material package is in compliance with applicable Department of Transportation (D.O.T.) regulations and FedEx Ground Package Systems Inc. requirements. Failure to comply with these regulations and requirements may subject the shipper and carrier to fines and penalties.

Due to the changing nature of D.O.T. regulations and other information, it is impossible to guarantee absolute accuracy of the material contained in this guide. FedEx Ground Package Systems Inc., therefore, cannot assume any responsibility for omissions, errors, misprinting, or ambiguity contained within this guide and shall not be held liable in any degree for any loss or injury caused by such omission or error presented in this publication.

The *FedEx Ground Hazardous Materials Shipping Guide* is intended to simplify Title 49 CFR. FedEx Ground Package Systems Inc. reserves the right to be more restrictive than the federal regulations (49 CFR). Customers should be thoroughly familiar with the applicable sections of this guide when shipping hazardous materials via FedEx Ground Package Systems Inc. This guide reflects current dockets under final rule published on or before March 1, 2009.

-TABLE OF CONTENTS-

<u>TOPIC</u>	<u>Page #</u>
FedEx Ground Prohibited & Allowable Hazardous Materials	1
FedEx Ground Service Restrictions and Requirements	2
Shippers Responsibilities for Documentation	17
Completed Samples of Documentation	19
Definitions and Other Terms	28
49 CFR Sections	56
Identification Number Cross Reference Index	127
How to Read the FedEx Ground Hazardous Material Table	149
FedEx Ground Hazardous Materials Table	160
Special Provisions	288
Hazardous Substance (RQ) Table	308
Hazardous Materials Load & Segregation Chart	319

FedEx Ground Prohibited Hazardous Materials:

CLASS	NAME	LABEL CODE / LABEL
1.1	Explosives	1.1 / Explosive 1.1
1.2	Explosives	1.2 / Explosive 1.2
1.3	Explosives	1.3 / Explosive 1.3
1.5	Explosives	1.5 / Explosive 1.5
2.3	Poisonous Gas	2.3 / Poisonous Gas
4.2	Spontaneously Combustible Material	4.2 / Spontaneously Combustible
4.3 *	Dangerous When Wet	4.3 / Dangerous When Wet
6.1	Poisonous Materials (PG I & II, Inhalation Hazards)	6.1 / Poison
6.1 *	Poisonous Materials (PG I & II, Non-Inhalation Hazards)	6.1 / Poison
6.1 *	Poisonous Materials (PG III)	6.1 / Keep Away From Food
6.2	Infectious Substance	6.2 / Infectious Substance
7	Radioactive Material II and III	7 / Radioactive Yellow II & III

* FedEx Ground will handle these materials only when packaged according to a DOT Special Permit, or when packaged in accordance with DOT exception 49 CFR 173.13.

Important: Hazardous materials, including ORM-D, via FedEx Ground service are acceptable within the contiguous United States. Hazardous materials, including ORM-D materials, **cannot** be shipped to Alaska or Hawaii. Consumer Commodity ORM-Ds only, can be shipped into Canada. However, you cannot ship Cartridges, small arms or Cartridges, power devices to Canada.

FedEx Ground Acceptable Hazardous Materials:

CLASS	NAME	LABEL CODE / LABEL
1.4*	Explosives	1.4 / Explosive 1.4
1.6	Extremely Insensitive	1.6 / Explosive 1.6
2.1	Flammable Gas	2.1 / Flammable Gas
2.2	Non-Flammable Gas	2.2 / Non-Flammable Gas
3	Flammable Liquid	3 / Flammable Liquid
4.1	Flammable Solid	4.1 / Flammable Solid
5.1	Oxidizer	5.1 / Oxidizer
5.2	Organic Peroxide	5.2 / Organic Peroxide
7	Radioactive Material I	7 / Radioactive White I
8	Corrosive Material	8 / Corrosive
9	Miscellaneous Hazardous Materials	9 / Class 9
ORM-D	Consumer Commodity (ORM-D)	ORM-D/Consumer Commodity
ORM-D	Cartridges, small arms (ORM-D)	ORM-D/Cartridges, small arms

* Except fireworks

FedEx Ground Conditions and Requirements:

General

All packages containing hazardous materials must be properly classified, described, packaged, marked, labeled and in proper condition for transportation according to applicable DOT regulations and FedEx Ground requirements. FedEx Ground does not accept hazardous material packages prepared under the IATA/ICAO (International Air Transport Association/International Civil Aviation Organization) regulations. HazMat packages and paperwork are inspected by FedEx Ground. Packages will not be transported if not in full compliance with DOT and company requirements.

All packages offered and prepared under a DOT Special Permit (DOT-SP) must provide a copy of the Special Permit paperwork to the accepting facility (origin terminal).

All shippers must be prepared to provide a copy of the Material Safety Data Sheet (MSDS) for their materials when requested by FedEx Ground.

Service

- Shippers must be properly qualified through a FedEx Account Executive before offering hazardous material packages via FedEx Ground. Please contact FedEx Ground Customer Service at 1-800-GO-FEDEX (1-800-463-3339) for more information.
- Hazardous materials, including ORM-D, via FedEx Ground service are acceptable within the contiguous United States. Hazardous materials, including ORM-D materials, **cannot** be shipped to Alaska or Hawaii. Consumer Commodity ORM-Ds only, can be shipped into Canada. However, you cannot ship Cartridges, small arms or Cartridges, power devices to Canada.
- Call Tag service is not available for hazardous materials, except ORM-D's.
- Guaranteed service may not apply to packages not properly prepared in accordance with DOT regulations and FedEx Ground requirements.
- Hazardous material shipments, including ORM-D's, are not accepted at FedEx Express drop box locations, FedEx Office, FedEx World Service Center locations, FedEx Authorized ShipCenters or any unstaffed FedEx locations.

Material Restrictions

Refer to column 9 of the FedEx Ground Hazardous Materials Table for additional restrictions and requirements for specific hazardous materials.

FedEx Ground does not accept:

- Reportable quantities (RQ)
- Hazardous Waste
- Any material that is an “Inhalation Hazard”
- Fireworks
- Biohazards such as blood, urine, fluids and other noninfectious diagnostic specimens.

Hazardous Materials Security

Shippers and carriers are required to develop and implement a security plan addressing risks related to the transportation of hazardous materials. FedEx Ground has a Security Plan in place and is in full compliance with this regulation, along with the security-training requirements specified in 49 CFR 172.704.

Note: Due to the sensitive nature of this information, we cannot make a copy of our security plan available to our customers.

Packaging

All hazardous materials must be packaged in United Nations Performance Oriented Packaging (UN POP) except when non-specification packaging is authorized by the 49 CFR. All packaging must meet the requirements set out in 49 CFR 173.24 and 173.24a. Packaging that is not in new or “like new” condition will not be accepted. In addition, the following requirements apply:

- FedEx Ground requires Fiberboard “Non-Specification Packaging” or “Strong Outer Packaging” to meet the following requirements:
 - For packages weighing up to 20 lbs. the outer package minimum requirements will be a 200 lb. Bursting test or 32 Edge Crush test package.
 - For packages weighing 21-50 lbs. a 250 lb. Bursting test or 44 Edge Crush test will be required.
 - For packages weighing 51-70 lbs. the outer container must be 275 lb. Bursting test or 55 Edge Crush test.
- Hazardous materials cannot be shipped in any FedEx packaging.
- Class 2 cylinders must be placed inside an overpack (outer package) marked “OVERPACK.”

- Hazardous materials cannot be banded, strapped or taped to form a bundle.
- FedEx Ground does not accept pails or drums over 8 gallons (32 liters). All pails or drums must be UN POP. We will accept authorized pails or drums as single packaging, however an additional handling fee may apply to these shipments.
- FedEx Ground will accept up to three different hazardous materials inside one UN POP or an overpack containing the required UN POP provided the materials are compatible. The materials must be packaged separately then placed in one outer package and contain three OP-900's and the required marking and labels.
- FedEx Ground does not accept cryogenic liquids unless properly prepared and packaged under exception 49 CFR 173.320. FedEx Ground **does not accept** flammable (Class 2.1) cryogenic liquids.
- FedEx Ground does not accept radioactive fissile material unless properly prepared and packaged under exception 49 CFR 173.453.
- Maximum weight for a hazardous material package is 70 pounds total.

Combination packaging containing hazardous materials cannot exceed the inner-container requirements. The maximum size, number and total weight of glass, plastic or metal inner containers allowed in any one package are listed below:

<u>Type of Container</u>	<u>Max. Unit Size</u>	<u>Max. No. of Units</u>	<u>Max. Volume per Carton</u>	<u>Max. Wt. (Net) per Package</u>
Glass	0.5 liters	12*	3L (12pt)	Net 25 lb.
	1.0 liter (1 qt.)	6	6L (6 qt.)	Net 25 lb.
	2.0 liters (1/2 gal.)	4	8L (2 gal.)	Net 25 lb.
	4.0 liters (1 gal.)	2	8L (2 gal.)	Net 25 lb.
Plastic	8L (2 gal.)	4*	16L (4 gal.)	Net 50 lb.
Metal	4.0 liters (1 gal.)	4*	16L (4 gal.)	Net 50 lb.
<ul style="list-style-type: none"> • Maximum number of units for unit size of less than 0.5L (1 pt.) glass and 4L (1 gal.) plastic or metal are not specified, however package cannot exceed the maximum volume or weight per package. 				

ORM-D Shipments

Cartridges, small arms (ORM-D): Cartridges, small arms and cartridges, power devices which have been classed as a Division 1.4S explosive may be reclassified and offered for transportation as an ORM-D material when packaged in accordance with 49 CFR 173.63(b). Each package containing an ORM-D material must be marked on at least one side with the ORM-D marking. The proper shipping name of the material, **Cartridges, small arms or Cartridges, power devices**, as appropriate, must be marked above or before the ORM-D designation. No shipping paper (OP-900) or certification form (OP-950) is required for ORM-D materials transported via highway.

FedEx Fact: Cartridges, small arms or Cartridges, power device ORM-D materials are prohibited to Alaska, Hawaii, or Canada.

Consumer commodity (ORM-D): Hazardous materials that have been properly classed as a Consumer commodity (ORM-D) must be marked on at least one side with the ORM-D marking. The proper shipping name, **Consumer Commodity**, of the material must be marked above or before the ORM-D designation. No shipping paper (OP-900) or certification form (OP-950) is required for ORM-D materials transported via highway.

FedEx Fact: Consumer commodity ORM-D materials are prohibited to Alaska or Hawaii. Consumer commodities are acceptable into Canada.

Paint Shipments

Paint or Paint related material: FedEx Ground will only accept metal paint-type cans with friction fitted lids packaged and prepared in fiberboard under one of two types of packaging methods:

Option 1:

- United Nations Performance Oriented Packaged (UNPOP).
- A retaining ring around the lid or:
 - For gallons, 6 lid clips
 - For quarts, 5 lid clips
 - For pints, 4 lid clips

Option 2: If authorized by 49 CFR §173.173 or limited quantity (Ltd. Qty.), the following packaging requirements must be met:

- Fiberboard packaging must meet the following requirements:
 - For packages weighing up to 20 lbs. the outer package minimum requirements will be a 200 lb. Bursting test or 32 Edge Crush Test package.

- For packages weighing 21-50 lbs. a 250 lb. Bursting test or 44 Edge Crush Test will be required.
- For packages weighing 51-70 lbs. the outer container must be 275 lb. or 55 Edge Crush Test.
- Full partitions between the inner containers and box sides.
- Fiberboard padding above and below the inner containers.
- A retaining ring around the lid or:
 - For gallons 6 lid clips
 - For quarts 5 lid clips
 - For pints 4 lid clips
- Absorbent material is required to fill the void spaces.

Batteries

All batteries (including lithium, alkaline, lead acid, etc.) must be packaged so that terminals do not contact electrically conductive material or other batteries during shipment. Loosely packaged batteries should be placed in plastic bags, or the battery terminals should be covered with tape or another non-conductive material.

Radioactive Shipments

Radioactive material: FedEx Ground will only accept radioactive material, Type A quantity, in packaging required to be labeled RADIOACTIVE WHITE-I. FedEx Ground will not accept the RADIOACTIVE YELLOW II or YELLOW III hazard labels. If shipping a Radioactive material that requires the shipping paper (OP-900) and certification form (OP-950) the following information must appear in the “Type DOT Label(s) Required, Ltd. Qty., or Special Permit” section of both forms:

- The name of each radionuclide, abbreviations are permitted.
- The physical and chemical form.
- The activity in becquerels, gigabecquerels or terabecquerels, abbreviations are permitted.
- The name of the label: RADIOACTIVE WHITE-I
- The words “Fissile Excepted” if packaged is excepted under 49 CFR 173.453.

FedEx Fact: FedEx Ground does not accept Radioactive Fissile material unless properly prepared and packaged under exception 49 CFR 173.453.

Radioactive material limited quantity (Ltd. Qty.): Radioactive materials in excepted packages for limited quantities do not require the RADIOACTIVE WHITE-I hazard label, hazardous material shipping paper (OP-900) or certification form (OP-950). Radioactive packages in limited quantities must conform to 49 CFR 173.421. The outside of the inner packaging or, if there is not inner packaging the outside of the package itself must have “Radioactive” marked on the package. The outside of each package must be marked with the four digit UN identification number for the material preceded by the letter UN.

Note: Radioactive material meeting the definition of another hazard class or division cannot be transported or prepared under the limited quantity exceptions.

**** IMPORTANT ****

Note: Immediate notification to the FedEx Ground Hazardous Materials Administration, PGH Safety Department, is required for incidents involving any damaged or leaking package containing a radioactive material (see 49 CFR 171.15 and 171.16)

Training

Hazardous material training is required for all employees who perform a hazardous material function. It is the duty of each hazmat employer to comply with the training requirements listed in 49 CFR 172.704.

FedEx Ground offers hazardous materials training via the online ShipSafe.ShipSmart. Hazardous Materials Training Program. The training curriculum includes the following:

- Rules and Regulations (Ground Shipping only)
- Hazard Classes and Divisions
- Shipping Papers
- Packaging (Non-Bulk Only)
- Marking and Labeling
- ORM-D Classification
- Security Awareness

The course is available at www.shipsafeshipsmart.com and is payable by credit card only. The cost for the class is \$150.00. A discount is available for groups of more than three students. To obtain a discount please call 1-800-762-3744, ext. 6753 or ext 5059.

Material Exceptions

Carbon Dioxide, solid (Dry Ice)

Carbon Dioxide, solid or Dry Ice is not regulated as a hazardous material when shipped via highway transportation. Dry Ice is only regulated as a hazardous material when shipped via aircraft. However, caution should be considered when transporting large amounts of Dry Ice via highway.

Dry Ice used to refrigerate diagnostic specimens (BIO-HAZARDS), such as blood, urine, and tissues, are NOT ACCEPTED by FedEx Ground.

Dry Ice is not accepted to Alaska or Hawaii.

Small Quantity Exceptions

Hazardous materials that are less than 30 ml (1 ounce) may possibly be shipped as a small quantity. In order, to utilize the exception the package must be packaged and prepared according 49 CFR 173.4. Small quantities, when packaged and prepared under 49 CFR 173.4, do not require hazardous material shipping papers, certification forms, marking or labeling of the package. However, the outer package must be marked as “This package conforms to 49 CFR 173. 4.” Lithium batteries and cells are not eligible for this exception. The following requirements must be met:

- Materials are packaged under 49 CFR 173.4
- Less than 1 oz. per inner container
- Gross weight of the completed package can not to exceed 64 pounds.
- Package must be marked with statement “This package conforms to 49 CFR 173.4.”
- No shipping papers required
- No hazard labels or Identification markings

Lighters or Lighter Refills

Lighters and lighter refills must be shipped as hazardous materials via FedEx Ground. FedEx Ground does not honor 49 CFR 173.308. Shipments require a “T” number (T- xxxx) or the more recent alpha/number identifier (LLA-xxxx) marked on the outer package and shipping papers.

Air bag inflators, or Air bag modules, or Seat-belt pretensions

The manufacturer must submit each design type of air bag inflator, air bag module, or seat-belt pretensioner to the Associate Administrator for examination and testing. The manufacturer will receive written notification from the Associate Administrator that the device has been approved for transportation and assigned an EX number that must be listed on the shipping paper. When recycling an air bag inflator, air bag module, or seat-belt pretensioner, “Recycled” must be listed on the shipping paper after the basic description.

Lithium Batteries

Lithium batteries and cells shipping requirements are detailed in 49 CFR173.185. Please note, lithium batteries shipped under the Special Provision 188 and 189 are required to mark packages of primary lithium batteries with specific text base on the size and the number of cells or batteries in the package. Packages containing more than 24 lithium calls or 12 lithium batteries require additional information on procedures to be followed when damaged.

Packages shipped under 49 CFR 173.185 (e) with shipping papers and the Class 9 diamond would not need the statement. The shipper is required make this determination.

Black/Smokeless Powder for Small Arms

Black powder for small arms and Smokeless powder for small arms are very similar commodities. Both powders can be reclassified from Class 1 to Class 4.1, Flammable Solids. Furthermore, one vehicle cannot carry more than 100 lbs of Black powder for small arms or Smokeless powder for small arms at any given time.

Matches, safety

Matches, safety (Class 4.1-Flammable Solid) may not be regulated as a hazardous material if packaged and prepared under certain conditions. The 49 CFR allows an exception to the hazardous material regulations. Matches, safety, when packaged and prepared under 49 CFR 173.186, do not require hazardous material shipping papers, certification forms or hazard diamond labels when properly prepared. The only requirements for the outside (outer) package would be to have the DOT Shipping Name and UN Identification Number marked on the package:

Matches, safety
UN 1944

Refer to 49 CFR 173.186 for further details regarding matches.

Mercury

Mercury (Class -8- Corrosive) may not be regulated as a hazardous material if packaged and prepared under certain conditions. 49 CFR allows an exception to the hazardous material regulations. Mercury, when packaged and prepared under 49 CFR 173.164, do not require hazardous material shipping papers, certification forms, marking or labeling of the package when:

- The mercury is contained in instruments or articles (i.e. thermometers, barometers or fluorescent lights *or*
- The package does not contain more than 1lb. (.45kg) net quantity of mercury per package

Qualification Process

In order to ship hazardous materials via FedEx Ground, shippers must complete a qualification process before they can ship hazardous materials. To begin this process, contact your FedEx Account Executive who can assist you or call FedEx Customer Service at **1.800.GoFedEx (1.800.463.3339)**.

Qualification process:

- Complete a hazardous materials qualification form (OP-910).

- Provide information on the hazardous materials you'll be tendering to FedEx Ground. You can complete a sample hazardous materials certification form (OP-950) or prepare a spreadsheet listing the hazardous materials you ship.
- Provide proof that you have been trained in shipping hazardous materials in accordance with federal requirements (49 CFR 172.704). Acceptable forms of proof are:
 1. A certificate from a training company stating that you have completed its program. This certificate must contain the date in which the course was completed.
 2. A letter on company letterhead indicating who is responsible for hazardous materials training at your company and confirming that your employees have received the required training.
 3. Completing the ShipSafeShipSmart online hazardous materials training program.


Your FedEx Account Executive will forward this information to the FedEx Ground Safety Department for review and notify you once you've been approved to begin shipping.

Hazardous Materials Shipping Papers

A hazardous materials shipping paper (OP-900, OP-900B, OP-900LG or OP-900LL) and hazardous material certification form (OP-950) are documents used to identify the hazardous materials package(s) being offered for transportation. It is the shipper's responsibility to ensure when offering hazardous material packages, that each package is accompanied with the appropriate documentation and that all forms are accurate and complete.

To meet DOT shipping paper and certification requirements, FedEx Ground uses the following forms:

- Shipper's Hazardous Materials Certification, OP-950:


**HAZARDOUS MATERIALS
CERTIFICATION**

SHIPPER'S NAME & ADDRESS

SHIPPER NUMBER:
DATE / /

EMERGENCY CONTACT NUMBER
This telephone number is for 24 hour emergency response information.

Abbreviations not permitted except where noted. MARK ANY SPOILED SHEET "VOID" AND GIVE TO DRIVER. RETAIN ON FILE FOR 1-YEAR. OP-950 Rev. 8/07

NUMBER AND TYPE OF PACKAGING	IDENTIFICATION NUMBER	D.O.T. SHIPPING NAME OF MATERIAL <small>(Additional entries if applicable)</small>	HAZARD CLASS OR DIVISION NUMBER	PKG MGR GROUP	WEIGHT	TYPE DOT LABEL, I.D. NO., SPECIAL PERMIT OR REQUIRED INFORMATION	RECEIVER'S NAME, CITY & STATE <small>(Abbreviations permitted)</small>	TRACKING I.D. BAR CODE PACKAGE #

THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. HAZARDOUS MATERIALS CAN ONLY BE SHIPPED WITHIN THE 48 CONTIGUOUS STATES VIA GROUND SERVICE. HAZARDOUS MATERIALS AND ORM-Ds ARE PROHIBITED FROM BEING SHIPPED TO ALASKA, HAWAII, OR PUERTO RICO. ALL PACKAGES MUST BE PREPARED IN ACCORDANCE WITH ALL DOT AND FEDEX GROUND REQUIREMENTS.

SIGNATURE _____

Note: Shippers on automated devices (shipping systems) will have similar forms. All forms must have the appropriate DOT and FedEx Ground shipping information.

• Hazardous Materials Label, OP-900:

OP-900	HM	HAZARDOUS MATERIALS		
	Instructions	FedEx GROUND SHIPPER NUMBER		EMERGENCY CONTACT NUMBER
	To Shipper: Complete all boxes. Press firmly with ball point pen. All copies must be readable. Remove backing and attach to package near shipping label.	Number of packages and type/DOT Shipping Name of Material (Additional Entries If Applicable)		
	To Loader: Tear off copy & place in hazardous materials envelope.	Hazard Class or Division Number	Identification Number	Packing Group
	To Driver: Carry hazardous materials envelope (with these slips) in vehicle cab during transit.	Weight	Type DOT Label(s), Ltd. Qty., Special Permit or Required Information	
	OP-900 9/07	SHIPPER: Use ball point pen and press firmly when preparing this form.		

Note: The OP-900 can be hand written and does not need to be computer generated.

• Hazardous Materials Label, OP-900LG:

HAZARDOUS MATERIALS	24 HOUR EMERGENCY TELEPHONE NUMBER	PACKAGE REFERENCE	ACCOUNT NUMBER	To Loader: Tear off copy and place in hazardous material envelope.
	Number of Packages and Type, Proper Shipping Name, Class or Division, UN Number or Identification Number, Packing Group (if required), all other required information, and mass/capacity.			
	RECEIVER	TRACKING NUMBER		To Driver: Carry hazardous materials envelope (with these slips) in vehicle cab during transit.
	LABELS REQUIRED			
	SHIPPER'S CERTIFICATION		SIGNATURE	
	THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. HAZARDOUS MATERIALS CAN ONLY BE SHIPPED WITHIN THE 48 CONTIGUOUS STATES VIA GROUND SERVICE. HAZARDOUS AND ORM-Ds ARE PROHIBITED FROM ALL AIR SHIPMENTS.			
	OP-900LG 9/07			

Note: The OP-900LG is designed to meet the specifications for specific hazardous material shipping systems. This form must be computer generated.

• **Hazardous Materials Label, OP-900LL:**

FedEx Ground offers a laser label OP-900 shipping paper. The label must be placed into a pouch (OP900LLP) on the side of the package. The instructions for use are listed on the back of the laser label. The OP-900LL can be used with the FedEx Ship Manager or these compliance software providers:

DANGEROUS GOODS COUNCIL
 1-800-652-9959
www.hazshipper.com

LABELMASTER SOFTWARE
 1-800-578-4955
www.labelmaster.com/software



Note: The OP-900LL must be computer generated.

DOT Basic Description for Hazardous Materials

Basic Information:

The description of the hazardous material information on the shipping papers (OP-900) and certification form (OP-950) must be as described in accordance to DOT regulations. There are twelve (12) basic items required on shipping papers accompanying hazardous materials packages. The shipper or the shipper's agent must supply this information. All entries on the shipping papers must be made printed legibly and in English. The shipping papers cannot contain unauthorized abbreviations or information. The twelve basic items are:

1. **Name and address of the shipper.**

Note: The shipper's name and address is not on the FedEx Ground Hazardous Materials Shipping Paper (OP-900). The shipper's address label on the package will suffice provided it identifies the shipper by name and address. The shippers information must be completed on the certification form (OP-950).

2. The **Number of and type of packaging(s)** must be indicated according to 172.202. The number of and type of package(s) must be indicated by description of the package (for example, 1 fiberboard box) Indication of the packaging specification number (4G) may be included (for example, 1 4G box). Abbreviations may be used for indicating packaging types (for example "cyl." for "cylinder") provided the abbreviations are commonly accepted and recognized.

3. The **UN/NA identification number** is listed in Column 4 of the Hazardous Materials Table.

Note: The number must be preceded by the UN or NA prefix.

4. The **DOT proper shipping name** as listed in Column 2 of the Hazardous Materials Table. Abbreviations and codes are not acceptable.

Note: Words shown in italics are not part of the shipping name, but can be used to further describe the material. The words in italics are optional.

5. The **Hazard Class or Division** is listed numerically as shown in Column 3 of the Hazardous Materials Table. The subsidiary hazard must appear in parentheses following the primary hazard. Abbreviations and codes are not acceptable.

6. The **Packing Group**, if required (see Column 5 of the Hazardous Materials Table). Packing groups must be roman type numbers (ex. I, II, III). Classes 2, 7 and some Class 9 materials are not assigned packing groups.

7. The **total quantity (weight)** by mass, capacity or as otherwise appropriate for the hazardous material including the unit of measurement.

Note: FedEx Ground requests the quantity (weight) of hazardous material be indicated in pounds (lbs). This is to allow FedEx Ground the ability to tally the weight of hazardous material on a vehicle. Units of measure may be abbreviated. See the following examples.

Ounce = oz.	Pound = lb.	Gram = g.	Kilogram = kg.
Gallon = gal.	Liter = L	Quart = qt.	Pint = pt.
Milliliter = ml.			

Conversions:

1 kg. = 2.2 lb.	1 lb. = 0.454 kg.	1 kg = 1000 g.	1 lb. = 16 oz.
1 L. = 1.06 qt.	4 qt. = 1 gal.	1 qt. = 0.95 L.	1 gal. = 3.78 L.

Note: 1 Gallon of water weighs approximately 8 lbs.

8. The **Type DOT Label(s)** required from Column 6 of the Hazardous Materials Table. Abbreviations and codes are not acceptable.

Note: If a hazardous material requires more than one label on the package, all labels must be entered on the shipping papers.

Note: Other information may be required. No label name is required if a Special Permit or exception is used.

Note: If NONE appears in column 6 of the Hazardous Materials Table, then no label is required and this section of the shipping paper may be left blank.

9. The **Consignee's (Recipient's) name and address.**

Note: The consignee's (recipient's) name and address is not on the FedEx Ground Hazardous Material Shipping Paper (OP-900). The shipper's address label will suffice provided it identifies the consignee (recipient) by name and address.

10. The **FedEx Ground barcode shipper and package number(s)** for the hazardous materials package(s).

11. The **Shipper's Certification** on the Shipper's Hazardous Materials Certification, OP-950, must be legibly signed by an authorized representative of the shipper.

Note: The signature may be hand written or computer generated.

12. Emergency Response Telephone Number.

Note: The emergency response telephone number section on the FedEx Ground Shippers Hazardous Materials Certification, OP-950, may be used only if the telephone number applies to all hazardous materials package listed. If not, a separate telephone number must be indicated for each package. This must be a US number with English speaking representatives 24 hours per day.

Additional Description Information

1. If a hazardous material has a generic shipping name, the technical name of the hazardous component may be required to be entered in parentheses with the basic description. If the letter "G" appears in column 1 of the FedEx Ground Hazardous Material Table, a technical name is required.

For example: **Compound Cleaning Liquids (hydrochloric acid).**

2. If the hazardous material is a mixture or solution of two or more hazardous components, the technical names of at least two components most predominantly contributing to the hazard must be entered. If the letter "G" appears in column 1 of the FedEx Ground Hazardous Material Table, a technical name is required.

For example: **Flammable Liquids, corrosive, n.o.s. (Ethanol, Sodium Hydroxide).**

3. If the hazardous material meets the definition of a DOT Poison but the shipping name or hazard class does not indicate a Poison, the word "Poison" must be included on the shipping papers with the basic description. If the hazardous material has a N.O.S. generic shipping name, the technical name of the poison component must be entered in parentheses with the basic description. Materials, which pose an inhalation hazard, must have the notation "Poison Inhalation- Hazard Zone " entered on the shipping papers.

Note: FedEx Ground **does not** accept hazardous materials, which require the "Poison Inhalation Hazard Zone" labeling.

Note: FedEx Ground will only handle Poisonous materials if they are packed in an approved package that has been granted a DOT Special Permit (i.e., DOT-SP 9168) or exception which precludes the requirements for a "Poison" or "Poison PG III" Label.

4. Hazardous Materials which are shipped in a package which has a DOT authorized packaging Special Permit must bear the additional description "DOT-SP" followed by the assigned special permit number.

5. Hazardous materials which are shipped under the EXCEPTION packaging rules in Column 8(a) of the Hazardous Materials Table may not be subject to labeling (except for 6.1 materials) and placarding requirements; however, "Limited Quantity" or "Ltd. Qty." must appear on the shipping papers after the basic description.
6. A hazardous material, which is labeled "Dangerous When Wet", must have the same notation on the shipping papers.

Note: FedEx Ground will only handle "Dangerous When Wet" materials if packed in an approved package that has been granted a DOT Special Permit or exception, which precludes the placarding requirements.

7. A hazardous materials package that contains a reportable quantity of a hazardous substance must be identified with the letters "RQ" before or after the proper shipping name on the shipping papers. Please refer to the RQ section for the list of hazardous substances (RQ).

Note: FedEx Ground does not handle any hazardous material, containing a reportable quantity (RQ) of a hazardous substance.

8. Radioactive materials require additional shipping paper notations. Detailed information regarding shipping paper requirements for radioactive materials can be found in 49 CFR 172.203 (d) of the Hazardous Materials Regulations or in the Radioactive Shipments section of this guide.

Shipper Procedures for Hazardous Materials Documentation

Shippers Hazardous Material Certification (Form OP-950)

The Shipper's Hazardous Materials Certification, OP-950 is a two (2)-part form, which will be completed by the shipper and distributed as follows:

- The original (gray copy) will be given to the FedEx Ground driver on pickup to be returned to the facility. The driver will turn in the FedEx Ground copy of the OP-950 to the facility management to be filed in a Shipper's Hazardous Materials Certification file for 13 months.
- The copy (yellow copy) will be retained as the shipper's copy.

Note: The OP-950 must be complete, agree with the Hazardous Materials Table, contain no unauthorized abbreviations, and be signed by the shipper. If the OP-950 is not correct the shipment will be held until the paperwork is correct. A Shipper Error Notification (OP-908) may be faxed to the shipper in order to obtain the correct paperwork. (See example on the next page).

Hazardous Materials Shipper Error Notification

OP-908
11/08

Notification Via: Fax Email Phone

Date: _____ Time: _____

To: _____

From FedEx: _____

Shipper Name or Account #: _____

Return Fax: _____

Fields in the Box Above are REQUIRED

Fax: _____

Email: _____

Phone: _____

Return Email: _____

Return Phone: _____

If phoned, record name of person and choose one: Left Message Spoke With: _____ (name of representative)

FedEx Address: _____ City: _____ State: _____ ZIP: _____


HAZARDOUS MATERIALS CERTIFICATION		SHIPPER'S NAME & ADDRESS		SHIPPER NUMBER		EMERGENCY CONTACT NUMBER	
1		2		3		4	
5	6	7	8	9	10	11	12
13	14		15				

- 1. The Shipper's Name must be complete.
- 2. The Shipper number must be the Ground Account Number or the Express Account Number.
- 3. The Date must be the Date of the pickup.
- 4. The Shipper must provide a 24-hour Emergency response telephone number (including area code) for use in event of an emergency involving the Hazmat listed.
- 5. Number and Type of Packaging.
- 6. The Identification Number must include the UN or NA prefix and a 4 digit number and match the proper shipping name.
- 7. The Proper Shipping Name must be listed exactly as it is on the 49 CFR 172.101 Hazardous Materials Table – No misspellings or abbreviations.
- 8. The Technical Name must be listed in parentheses after the Proper Shipping Name if there is a 'G' in column 1 of the Hazardous Materials Table.
- 9. The Hazard Class must be listed numerically and the subsidiary hazard class, if applicable, must be listed in parentheses after the primary hazard class.
- 10. The Packing Group must be listed as Roman numeral I, II, or III. This can be left blank if not applicable.
- 11. The weight must contain the number and the unit of measure (i.e. lbs. or gal)
- 12. The type DOT labels listed in Column 6 of the FedEx Ground Hazardous Materials Table cannot be abbreviated. Additional information, such as Limited Quantity, DOT Exemptions, T-#, Ex-#, and CA-#s may be listed in this column.
- 13. The receiver's name, city, and state must be listed here. Ditto marks are acceptable in this column only.
- 14. List the tracking ID here - 15-digit for the total tracking ID number or the last 8 digits, which is the package number.
- 15. An authorized representative of the shipper must legibly sign the Shipper's Certification on the Shipper's Hazardous Materials Certification, OP-950. The signature may be mechanically typed or computer generated.
- 16. This is an incorrect or unauthorized form. Contact your account executive for an updated version.
- 17. No OP-950/Hazardous Materials Certification provided.
- 18. Improper packaging - Please retrieve package from FedEx Ground at address above.
- 19. FedEx Ground Prohibited/Restricted Hazardous Material - Please retrieve package from FedEx at address above
- 20. Other / more information required: _____

Please make the necessary corrections to your original OP-950 and return by fax to the number listed above.
The Department of Transportation regulations mandate that the shipper maintains a copy of the shipping papers for two years.
Your package may be held or delayed until the correct paperwork is received.

FedEx Ground Staff must make applicable changes to OP-900

SAMPLE HAZARDOUS MATERIALS CERTIFICATION FORM (OP-950):

		SHIPPER'S NAME & ADDRESS YOUR COMPANY NAME YOUR STREET ADDRESS YOUR CITY, STATE, ZIP CODE			SHIPPER NUMBER: 1 2 3 4 5 6 7 DATE 10 / 01 / 07			EMERGENCY CONTACT NUMBER: YOUR CONTACT NUMBER This telephone number is for 24-hour emergency response information.	
		Abbreviations not permitted except where noted. MARK ANY SPOILED SHEET "VOID" AND GIVE TO DRIVER. RETAIN ON FILE FOR 1-YEAR. OP-950 Rev. 8/07							
NUMBER AND TYPE OF PACKAGING	IDENTIFICATION NUMBER	D.O.T. SHIPPING NAME OF MATERIAL (Additional entries if applicable)	HAZARD CLASS OR DIVISION NUMBER	PACKING GROUP	WEIGHT	TYPE DOT LABEL(S), LTD QTY, SPECIAL PERMIT, OR REQUIRED INFORMATION	RECEIVER'S NAME, CITY & STATE (Abbreviations permitted)	TRACKING I.D. BAR CODE PACKAGE #	
1 DRUM	UN 1814	POSTASSIUM HYDROXIDE SOLUTION	8	III	40lbs	CORROSIVE	CHEMICAL CO. PHILADELPHIA, PA	996111526723458	
1 BOX	UN 1760	CORROSIVE LIQUID n.o.s. (CAPRYLYL CHLORIDE)	8	II	14lbs	CORROSIVE	XYZ CO. BOSTON, MA	996111526723459	
1 BOX	UN 2031	NITRIC ACID	8 (5.1)	I	20lbs	CORROSIVE OXIDZER	SAEETY CO. CHICAGO, IL	996111526724021	
1 4G BOX	UN 1597	DINITROBENZENES	6.1	II	15oz	DOT-SP 8249	D & R POISONS BUFFALO, NY	996111526724022	
1 4G BOX	UN 2790	ACETIC ACID SOLUTION	8	II	7lbs	LIMITED QUANTITY OR LTD QTY	NOW CO. YOUNGSTOWN, OR	996111526724128	
1 BOX	UN 3268	AIR BAG MODULES	9	III	10lbs	CLASS 9 EX 123456789	SK MOTORS PARKERSBURG, WV	996111526724126	
THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION. HAZARDOUS MATERIALS CAN ONLY BE SHIPPED WITHIN THE 48 CONTIGUOUS STATES VIA GROUND SERVICE. HAZARDOUS MATERIALS AND ORM-Ds ARE PROHIBITED FROM BEING SHIPPED TO ALASKA, HAWAII, OR PUERTO RICO. ALL PACKAGES MUST BE PREPARED IN ACCORDANCE WITH ALL DOT AND FEDEX GROUND REQUIREMENTS.							SIGNATURE <u>YOUR SIGNATURE</u>		


Instructions for the use of the shipping papers (OP-900):

The OP-900 is the basic Hazardous Materials Shipping Paper, which accompanies the hazardous materials shipment in transit. It consists of a multi-part label with five (5) "tear-off" parts. This form will be completed by the shipper and attached to the hazardous materials package. The hazardous materials entries on the form must agree exactly with the information on the Shipper's Hazardous Materials Certification and the mandatory marking and labeling information on the hazardous materials package.

SAMPLE HAZARDOUS MATERIAL SHIPPING PAPERS (OP-900):


OP-900 Example #1: Exception 49 CFR 173.13

Shipping papers prepared under 49 CFR 173.13. Packages prepared under this exception do not require DOT hazard labels. The statement “This package conforms to 49 CFR 173.13” must also be marked on the outer package.

OP-900		FedEx Ground HAZARDOUS MATERIALS		
	HM	FedEx GROUND SHIPPER NUMBER	EMERGENCY CONTACT NUMBER	
	Instructions	1234567	800-555-12345	
	To Shipper:	Number of packages and type/DOT Shipping Name of Material (Additional Entries If Applicable)		
	Complete all boxes. Press firmly with ball point pen. All copies must be readable. Remove backing and attach to package near shipping label.	1 Fiberboard Box		
	To Loader:	Ethyl oxalate		
Tear off copy & place in hazardous materials envelope.	Hazard Class or Division Number	Identification Number	Packing Group	
To Driver:	6.1	UN2525	III	
Carry hazardous materials envelope (with these slips) in vehicle cab during transit.	Weight	Type DOT Label(s), Ltd. Qty., Special Permit or Required Information		
OP-900 9/07	2 lbs	This Package conforms to 49 CFR 173.13		
SHIPPER: Use ball point pen and press firmly when preparing this form.				

OP-900 Example #2: Limited Quantity

Shipping papers prepared under the limited quantity provisions of 49 CFR 173.154, do not require a diamond label. However, the shipper may choose to indicate the name of the label on the proper documentation as well as affixing the hazard label on the outer package.

OP-900		FedEx Ground HAZARDOUS MATERIALS		
	HM	FedEx GROUND SHIPPER NUMBER	EMERGENCY CONTACT NUMBER	
	Instructions	1234567	800-555-12345	
	To Shipper:	Number of packages and type/DOT Shipping Name of Material (Additional Entries If Applicable)		
	Complete all boxes. Press firmly with ball point pen. All copies must be readable. Remove backing and attach to package near shipping label.	1 plastic drum		
	To Loader:	Wood preservatives, liquid		
Tear off copy & place in hazardous materials envelope.	Hazard Class or Division Number	Identification Number	Packing Group	
To Driver:	3	UN1306	III	
Carry hazardous materials envelope (with these slips) in vehicle cab during transit.	Weight	Type DOT Label(s), Ltd. Qty., Special Permit or Required Information		
OP-900 9/07	8 lbs	Flammable Liquid, LTD QTY		
SHIPPER: Use ball point pen and press firmly when preparing this form.				

OP-900 Example #3: LTD. QTY.

When shipping papers prepared under the limited quantity provisions, the DOT diamond labels are not necessary when prepared as a limited quantity. Shippers can abbreviate the words limited quantity as LTD. QTY.

OP-900	HM	FedEx Ground HAZARDOUS MATERIALS			
	Instructions To Shipper: Complete all boxes. Press firmly with ball point pen. All copies must be readable. Remove backing and attach to package near shipping label. To Loader: Tear off copy & place in hazardous materials envelope. To Driver: Carry hazardous materials envelope (with these slips) in vehicle cab during transit. OP-900 9/07	FedEx GROUND SHIPPER NUMBER		EMERGENCY CONTACT NUMBER	
		1234567		800-555-12345	
		Number of packages and type/DOT Shipping Name of Material (Additional Entries If Applicable)			
		1 plastic drum			
		Wood preservatives, liquid			
Hazard Class or Division Number		Identification Number	Packing Group		
3		UN1306	III		
Weight	Type DOT Label(s), Ltd. Qty., Special Permit or Required Information				
8 lbs	Limited Quantity				
SHIPPER: Use ball point pen and press firmly when preparing this form.					

OP-900 Example #4: DOT Special Permit

FedEx Ground may require certain materials to be shipped using a DOT Special Permit or shippers may be utilizing a DOT Special Permit for other reasons. When shipments are prepared under an applicable DOT Special Permit, the shipping papers and certification form must reflect the appropriate DOT-SP number.

OP-900	HM	FedEx Ground HAZARDOUS MATERIALS			
	Instructions To Shipper: Complete all boxes. Press firmly with ball point pen. All copies must be readable. Remove backing and attach to package near shipping label. To Loader: Tear off copy & place in hazardous materials envelope. To Driver: Carry hazardous materials envelope (with these slips) in vehicle cab during transit. OP-900 9/07	FedEx GROUND SHIPPER NUMBER		EMERGENCY CONTACT NUMBER	
		1234567		800-555-12345	
		Number of packages and type/DOT Shipping Name of Material (Additional Entries If Applicable)			
		1 4g Box			
		Toxic liquids, organic, n.o.s. (thioglycol)			
Hazard Class or Division Number		Identification Number	Packing Group		
6.1		UN2810	III		
Weight	Type DOT Label(s), Ltd. Qty., Special Permit or Required Information				
16 oz.	DOT-SP-9168				
SHIPPER: Use ball point pen and press firmly when preparing this form.					

900 Example #5: Radioactive

Radioactive shipments require important information in the Type DOT Label(s) Required, Ltd. Qty., or Special Permit field of the hazardous materials shipping papers. Please refer to the Radioactive section for more information concerning Radioactive shipments.

OP-900	HM	FedEx Ground HAZARDOUS MATERIALS		
	Instructions	FedEx GROUND SHIPPER NUMBER	EMERGENCY CONTACT NUMBER	
	To Shipper:	1234567	800-555-12345	
	Complete all boxes. Press firmly with ball point pen. All copies must be readable. Remove backing and attach to package near shipping label.	Number of packages and type/DOT Shipping Name of Material (Additional Entries If Applicable)		
	To Loader:	1 fiberboard box		
To Driver:	Radioactive material, low specific activity (LSA-III)			
Tear off copy & place in hazardous materials envelope.	Hazard Class or Division Number	Identification Number	Packing Group	
To Driver:	7	UN3322		
Carry hazardous materials envelope (with these slips) in vehicle cab during transit.	Weight	Type DOT Label(s), Ltd. Qty., Special Permit or Required Information		
OP-900 9/07	40 TBq	Radioactive White I, Cs-131, 40TBq, liquid Cesium in solution		
	SHIPPER: Use ball point pen and press firmly when preparing this form.			

OP-900 Example #4: Technical name required

Some DOT Proper Shipping Names require a technical name to be included. Proper shipping names that must include a technical name in parentheses are indicated by the letter “G” in column 1 of the Hazardous Materials Table. Although the letters “n.o.s.” often indicates a required technical name, not all shipping names with “n.o.s.” require them.

OP-900	HM	FedEx Ground HAZARDOUS MATERIALS		
	Instructions	FedEx GROUND SHIPPER NUMBER	EMERGENCY CONTACT NUMBER	
	To Shipper:	1234567	800-555-12345	
	Complete all boxes. Press firmly with ball point pen. All copies must be readable. Remove backing and attach to package near shipping label.	Number of packages and type/DOT Shipping Name of Material (Additional Entries If Applicable)		
	To Loader:	1 steel drum		
To Driver:	Compounds, cleaning liquid (contains ethyl alcohol)			
Tear off copy & place in hazardous materials envelope.	Hazard Class or Division Number	Identification Number	Packing Group	
To Driver:	3	NA1993	I	
Carry hazardous materials envelope (with these slips) in vehicle cab during transit.	Weight	Type DOT Label(s), Ltd. Qty., Special Permit or Required Information		
OP-900 9/07	5 lbs	Flammable Liquid		
	SHIPPER: Use ball point pen and press firmly when preparing this form.			

Marking

All packages must be properly marked in accordance with 49 CFR requirements. FedEx Ground requires all packages to have a minimum of four package markings.

1. Shippers Address
2. Consignee (Recipient) Address
3. The DOT Proper Shipping Name
4. The UN/NA Identification Number

Hazardous materials packages may be required to be marked with additional information depending on the contents.

- EX numbers may be required to be marked on the package and/or shipping papers for certain explosives or air bags (Non-Flammable Gas & Class 9). The shipping papers require the EX number to be marked in the 'Type DOT Label(s) required, Ltd. Qty. or Special Permit field' of the OP-900 and OP-950.
- Often, hazardous materials are authorized by the DOT to be transported under a Special Permit. This Special Permit may vary depending on the intent of the shipper. This Special Permit number must be marked on the shipping papers and the outer package. DOT-SP-#### must be legibly marked on the outside package. Packages shipped under a DOT Special Permit number must mark the DOT SP number on the shipping papers in the 'Type DOT Label(s) required, Ltd. Qty. or Special Permit field' of the OP-900 and OP-950. For example, DOT-SP-9168.
- Packages shipped under the exception 49 CFR 173.13 must have marked on the shipping papers and package: "This package conforms to 49 CFR 173.13" in the same field on the OP-900 and OP-950.
- When specification packaging is required, the UN POP marking will be embossed on the outer package. These codes will vary depending on the performance and type of packaging. See the packaging section for further details. The UNPOP (United Nations Performance Oriented Packaging) markings are required to be permanently marked on the outer package. For example: UN 4G/X12/S/99/USA/M123. This mark should never be covered or obstructed by labels or other information.
- Class 2 cylinders must be placed inside an overpack (outer package) marked "OVERPACK."
- All Lighters or Lighter refills identified as UN1057 must have the appropriate "T" number or "LLA alpha/number" marked on the package.

Each package containing a material classed as an ORM-D must be marked on at least one side immediately following or below the proper shipping name: *Consumer Commodity, Cartridges, small arms* or *Cartridges, power device* as appropriate. The ORM-D designation may be handwritten or applied by label. The ORM-D designation must be placed within a rectangle that is approximately 6.3 mm (0.25 inches) larger on each side. It is important to remember that the marking ORM-D is the certification by the person offering the packaging for transportation that the material is properly described, classed, packaged, marked and labeled (when appropriate) and in proper condition for transportation according to the 49 CFR.

All liquid hazardous materials and Class 7 Radioactive must be legibly marked, with package orientation arrows on two opposite vertical sides of the package. They may be hand drawn or affixed by a label and they must conform pictorially to ISO Standard 780-1985: two arrows up with a line underneath and enclosed within a rectangle. Depicting a rectangular border around the arrows is optional.

Labeling

Hazardous Materials packages offered to FedEx Ground must be properly labeled. The hazard diamond label is the most prominent form of communication on a hazardous materials package. The label is diamond in shape and must be displayed on a package of contrasting color. The hazard label is associated with the hazard class and division of the material.

There are some hazardous materials that possess more than one hazard. For these packages the subsidiary hazard label must be displayed within 6 inches of the primary hazard label.

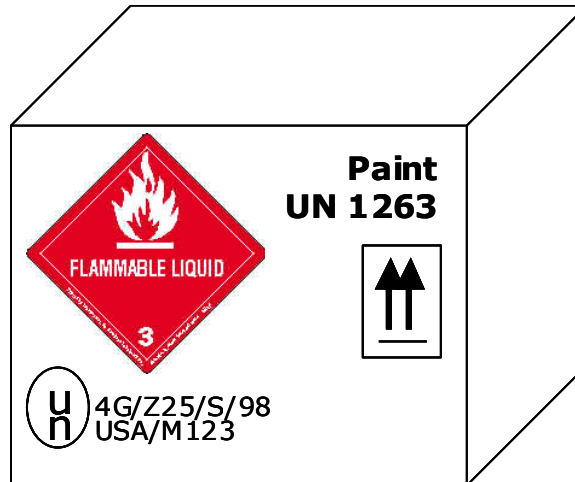
Exceptions to labeling:

- Packages shipped as a Limited Quantity may be exempted from the labeling requirements.
- Packages offered and prepared under a DOT Special Permit may be exempted from labeling.
- Packages prepared under 49 CFR 173.13 do not require a hazard diamond label.

COMPLETED PACKAGE EXAMPLES:

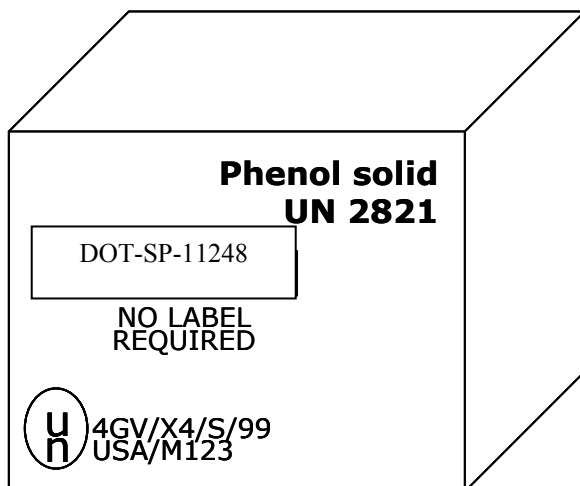
All packages must have the hazardous material shipping paper (OP-900) properly prepared and attached on top of the outer package next to the address label and must include the 'TO' (recipient) and 'FROM' (shipper) addresses. These illustrations are for information purposes only.

Example #1: Flammable Liquid (Class 3)

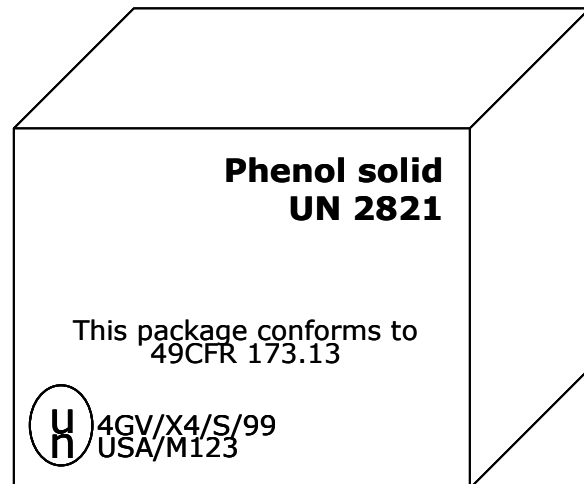


Example #2: Toxic (Class 6.1)

Option 1: DOT Special Permit

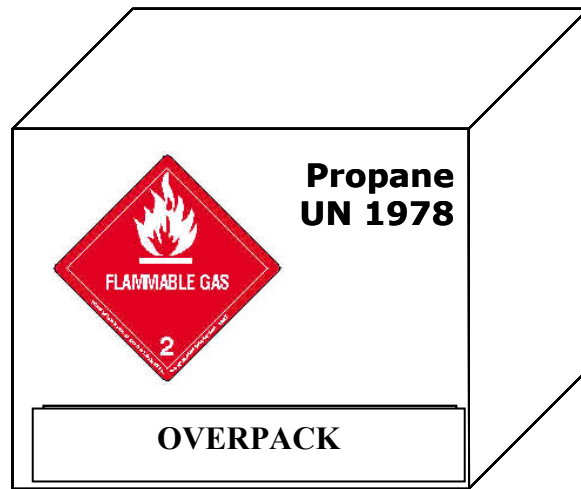


Option 2: 49CFR 173.13



Note: In either option, the DOT diamond hazard label will not be affixed.

Example #3: Flammable Gas (Class 2.1)

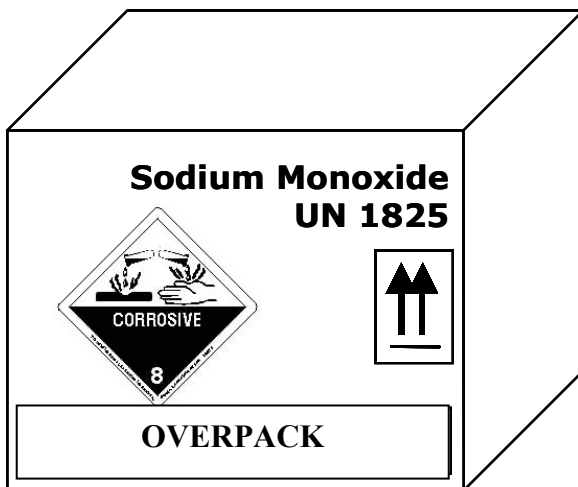


Note: All Class 2 (except Lighters-UN1057) materials must be properly overpacked.

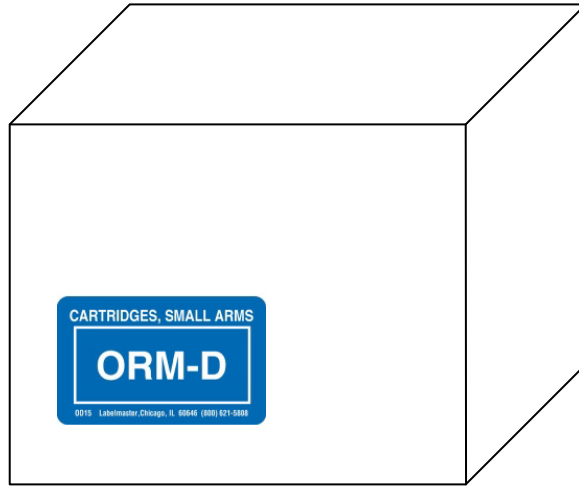
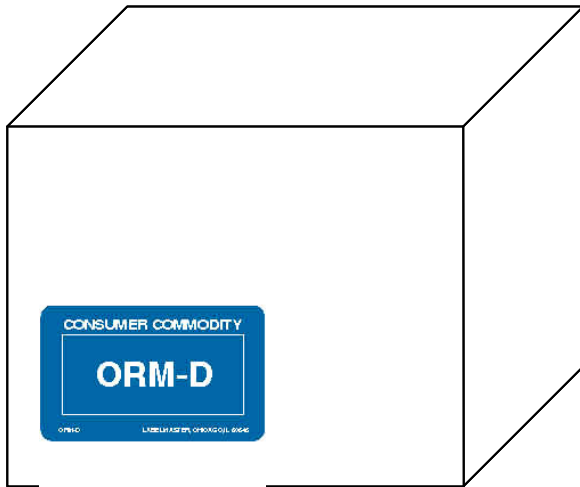
Example #4: Authorized Single Packaging

Option 1: Overpacked (49 CFR 173.25)

Option 2: Single (Standalone)



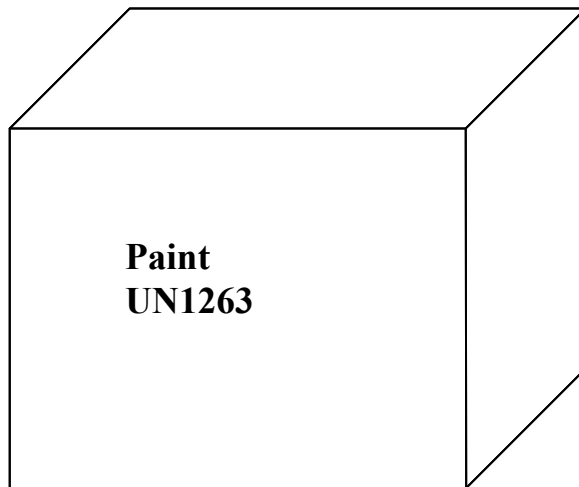
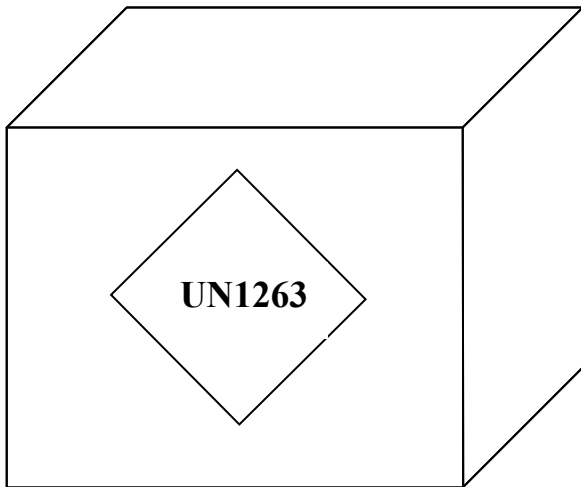
Example #5: ORM-D Shipments



Note: *ORM-D shipments do NOT require the hazardous material shipping paper (OP-900) and hazardous material certification form (OP-950).*

Note: *All outer non-specification packaging (i.e. overpacks, ORM-D's packaging) must display a minimum 200 lb. Burst Strength Test Seal or 32 Edge Crush Test (ECT) Seal.*

Example #6: Limited Quantity Shipments (two examples) (see 172.315 in Regulations)



Hazardous Material Support

The Dangerous Goods/Hazardous Materials hotline is available to answer questions about shipping hazardous materials via FedEx Ground. Please call 1-800-GO-FEDEX and press "81."

Definitions and other terms

For the purpose of this guide, the following commonly used terms have been provided for your information. A complete list of definitions can be found in 49 CFR §171.8.

Administrator means the Administrator, Pipeline and Hazardous Materials Safety Administration.

Aerosol means any non-refillable receptacle containing a gas compressed, liquefied or dissolved under pressure, the sole purpose of which is to expel a nonpoisonous (other than a Division 6.1 Packing Group III material) liquid, paste, or powder and fitted with a self-closing release device allowing the contents to be ejected by the gas.

Aggregate lithium content means the sum of the grams of lithium content or equivalent lithium content contained by the cells comprising a battery.

Agricultural product means a hazardous material, other than a hazardous waste, whose end use directly supports the production of an agricultural commodity including, but not limited to a fertilizer, pesticide, soil amendment or fuel. An agricultural product is limited to a material in Class 3, 8 or 9, Division 2.1, 2.2, 5.1, or 6.1, or an ORM-D material.

Approval means a written authorization, including a competent authority approval, from the Associate Administrator or other designated Department official, to perform a function for which prior authorization by the Associate Administrator is required under subchapter C of this chapter (49 CFR parts 171 through 180.)

Approved means approval issued or recognized by the Department unless otherwise specifically indicated in this subchapter.

Asphyxiant gas means a gas which dilutes or replaces oxygen normally in the atmosphere.

Associate Administrator means the Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration.

Atmospheric gases means air, nitrogen, oxygen, argon, krypton, neon and xenon.

Authorized Inspection Agency means: (1) A jurisdiction which has adopted and administers one or more sections of the ASME Boiler and Pressure Vessel Code as a legal requirement and has a representative serving as a member of the

ASME Conference Committee; or (2) an insurance company which has been licensed or registered by the appropriate authority of a State of the United States or a Province of Canada to underwrite boiler and pressure vessel insurance in such State or Province.

Authorized Inspector means an Inspector who is currently commissioned by the National Board of Boiler and Pressure Vessel Inspectors and employed as an Inspector by an Authorized Inspection Agency.

Bag means a flexible packaging made of paper, plastic film, textiles, woven material or other similar materials.

Bar means 1 BAR = 100 kPa (14.5 psi).

Barge means a non-selfpropelled vessel.

Biological product. See §173.134 of this subchapter.

Biological substances, Category B. See §173.134 of this subchapter.

Bottle means an inner packaging having a neck of relatively smaller cross section than the body and an opening capable of holding a closure for retention of the contents.

Bottom shell means that portion of a tank car tank surface, excluding the head ends of the tank car tank, that lies within two feet, measured circumferentially, of the bottom longitudinal center line of the tank car tank.

Box means a packaging with complete rectangular or polygonal faces, made of metal, wood, plywood, reconstituted wood, fiberboard, plastic, or other suitable material. Holes appropriate to the size and use of the packaging, for purposes such as ease of handling or opening, or to meet classification requirements, are permitted as long as they do not compromise the integrity of the packaging during transportation, and are not otherwise prohibited in this subchapter.

Break-bulk means packages of hazardous materials that are handled individually, palletized, or unitized for purposes of transportation as opposed to bulk and containerized freight.

BTU means British thermal unit.

Bulk packaging means a packaging, other than a vessel or a barge, including a transport vehicle or freight container, in which hazardous materials are loaded with no intermediate form of containment and which has:

- (1) A maximum capacity greater than 450 L (119 gallons) as a receptacle for a liquid;
- (2) A maximum net mass greater than 400 kg (882 pounds) and a maximum capacity greater than 450 L (119 gallons) as a receptacle for a solid; or
- (3) A water capacity greater than 454 kg (1000 pounds) as a receptacle for a gas as defined in §173.115 of this subchapter.

Bundle of cylinders means assemblies of UN cylinders fastened together and interconnected by a manifold and transported as a unit. The total water capacity for the bundle may not exceed 3,000 L, except that a bundle intended for the transport of gases in Division 2.3 is limited to a water capacity of 1,000 L.

Bureau of Explosives means the Bureau of Explosives (B of E) of the Association of American Railroads.

C means Celsius or Centigrade.

Captain of the Port (COTP) means the officer of the Coast Guard, under the command of a District Commander, so designated by the Commandant for the purpose of giving immediate direction to Coast Guard law enforcement activities within an assigned area. As used in this subchapter, the term Captain of the Port includes an authorized representative of the Captain of the Port.

Carfloat means a vessel that operates on a short run on an irregular basis and serves one or more points in a port area as an extension of a rail line or highway over water, and does not operate in ocean, coastwise, or ferry service.

Cargo aircraft only means an aircraft that is used to transport cargo and is not engaged in carrying passengers. For purposes of this subchapter, the terms cargo aircraft only, cargo-only aircraft and cargo aircraft have the same meaning.

Cargo tank means a bulk packaging that:

- (1) Is a tank intended primarily for the carriage of liquids or gases and includes appurtenances, reinforcements, fittings, and closures (for the definition of a tank, see 49 CFR 178.320, 178.337–1, or 178.338–1, as applicable);
- (2) Is permanently attached to or forms a part of a motor vehicle, or is not permanently attached to a motor vehicle but which, by reason of its size, construction or attachment to a motor vehicle is loaded or unloaded without being removed from the motor vehicle; and
- (3) Is not fabricated under a specification for cylinders, intermediate bulk containers, multi-unit tank car tanks, portable tanks, or tank cars.

Cargo tank motor vehicle means a motor vehicle with one or more cargo tanks permanently attached to or forming an integral part of the motor vehicle.

Cargo vessel means:

- (1) Any vessel other than a passenger vessel; and
- (2) Any ferry being operated under authority of a change of character certificate issued by a Coast Guard Officer-in-Charge, Marine Inspection.

Carrier means a person who transports passengers or property in commerce by rail car, aircraft, motor vehicle, or vessel.

CC means closed-cup.

Character of vessel means the type of service in which the vessel is engaged at the time of carriage of a hazardous material.

Class means hazard class. See hazard class.

Class 1. See §173.50 of this subchapter.

Class 2. See §173.115 of this subchapter.

Class 3. See §173.120 of this subchapter.

Class 4. See §173.124 of this subchapter.

Class 5. See §173.128 of this subchapter.

Class 6. See §173.132 of this subchapter.

Class 7. See §173.403 of this subchapter.

Class 8. See §173.136 of this subchapter.

Class 9. See §173.140 of this subchapter.

Closure means a device which closes an opening in a receptacle.

COFC means container-on-flat-car.

Combination packaging means a combination of packaging, for transport purposes, consisting of one or more inner packagings secured in a non-bulk outer packaging. It does not include a composite packaging.

Combustible liquid. See §173.120 of this subchapter.

Commerce means trade or transportation in the jurisdiction of the United States within a single state; between a place in a state and a place outside of the state; or that affects trade or transportation between a place in a state and place outside of the state.

Compatibility group letter means a designated alphabetical letter used to categorize different types of explosive substances and articles for purposes of stowage and segregation. See §173.52 of this subchapter.

Competent Authority means a national agency responsible under its national law for the control or regulation of a particular aspect of the transportation of hazardous materials (dangerous goods). The term Appropriate Authority, as used in the ICAO Technical Instructions (IBR, see §171.7), has the same meaning as Competent Authority. For purposes of this subchapter, the Associate Administrator is the Competent Authority for the United States.

Composite packaging means a packaging consisting of an outer packaging and an inner receptacle, so constructed that the inner receptacle and the outer packaging form an integral packaging. Once assembled it remains thereafter an integrated single unit; it is filled, stored, shipped and emptied as such.

Compressed gas. See §173.115 of this subchapter.

Consignee means the person or place shown on a shipping document, package marking, or other media as the location to which a carrier is directed to transport a hazardous material.

Consumer commodity means a material that is packaged and distributed in a form intended or suitable for sale through retail sales agencies or instrumentalities for consumption by individuals for purposes of personal care or household use. This term also includes drugs and medicines.

Containership means a cargo vessel designed and constructed to transport, within specifically designed cells, portable tanks and freight containers which are lifted on and off with their contents intact.

Corrosive material. See §173.136 of this subchapter.

Crate means an outer packaging with incomplete surfaces.

Crewmember means a person assigned to perform duty in an aircraft during flight time.

Cryogenic liquid. See §173.115(g) of this subchapter.

Cultures and stocks. See §173.134 of this subchapter.

Cylinder means a pressure vessel designed for pressures higher than 40 psia and having a circular cross section. It does not include a portable tank, multi-unit tank car tank, cargo tank, or tank car.

Dangerous when wet material. See §173.124 of this subchapter.

Design Certifying Engineer means a person registered with the Department in accordance with subpart F of part 107 of this chapter who has the knowledge and ability to perform stress analysis of pressure vessels and otherwise determine whether a cargo tank design and construction meets the applicable DOT specification. A Design Certifying Engineer meets the knowledge and ability requirements of this section by meeting any one of the following requirements:

- (1) Has an engineering degree and one year of work experience in cargo tank structural or mechanical design;
- (2) Is currently registered as a professional engineer by appropriate authority of a state of the United States or a province of Canada; or
- (3) Has at least three years' experience in performing the duties of a Design Certifying Engineer prior to September 1, 1991.

Designated facility means a hazardous waste treatment, storage, or disposal facility that has been designated on the manifest by the generator.

District Commander means the District Commander of the Coast Guard, or his authorized representative, who has jurisdiction in the particular geographical area.

Division means a subdivision of a hazard class.

DOD means the U.S. Department of Defense.

Domestic transportation means transportation between places within the United States other than through a foreign country.

DOT or Department means U.S. Department of Transportation.

Drum means a flat-ended or convex-ended cylindrical packaging made of metal, fiberboard, plastic, plywood, or other suitable materials. This definition also includes packagings of other shapes made of metal or plastic (e.g., round taper-necked packagings or pail-shaped packagings) but does not include cylinders, jerricans, wooden barrels or bulk packagings.

Elevated temperature material means a material which, when offered for transportation or transported in a bulk packaging:

- (1) Is in a liquid phase and at a temperature at or above 100 °C (212 °F);
- (2) Is in a liquid phase with a flash point at or above 38 °C (100 °F) that is intentionally heated and offered for transportation or transported at or above its flash point; or
- (3) Is in a solid phase and at a temperature at or above 240 °C (464 °F).

Engine means a locomotive propelled by any form of energy and used by a railroad.

EPA means U.S. Environmental Protection Agency.

Equivalent lithium content means, for a lithium-ion cell, the product of the rated capacity, in ampere-hours, of a lithium-ion cell times 0.3, with the result expressed in grams. The equivalent lithium content of a battery equals the sum of the grams of equivalent lithium content contained in the component cells of the battery.

Etiologic agent. See §173.134 of this subchapter.

EX number means a number preceded by the prefix “EX”, assigned by the Associate Administrator, to an item that has been evaluated under the provisions of §173.56 of this subchapter.

Explosive. See §173.50 of this subchapter.

F means degree Fahrenheit.

Farmer means a person engaged in the production or raising of crops, poultry, or livestock.

Federal hazardous material transportation law means 49 U.S.C. 5101 et seq.

Ferry vessel means a vessel which is limited in its use to the carriage of deck passengers or vehicles or both, operates on a short run on a frequent schedule between two points over the most direct water route, other than in ocean or coastwise service, and is offered as a public service of a type normally attributed to a bridge or tunnel.

Filling density has the following meanings:

- (1) For compressed gases in cylinders, see §173.304a(a)(2) table note 1.
- (2) For compressed gases in tank cars, see §173.314(c) table note 1.
- (3) For compressed gases in cargo tanks and portable tanks, see §173.315(a) table note 1.
- (4) For cryogenic liquids in cylinders, except hydrogen, see §173.316(c)(1).
- (5) For hydrogen, cryogenic liquid in cylinders, see §173.316(c)(3) table note 1.
- (6) For cryogenic liquids in cargo tanks, see §173.318(f)(1).
- (7) For cryogenic liquids in tank cars, see §173.319(d)(1).

Flammable gas. See §173.115 of this subchapter.

Flammable liquid. See §173.120 of this subchapter.

Flammable solid. See §173.124 of this subchapter.

Flash point. See §173.120 of this subchapter.

Freight container means a reusable container having a volume of 64 cubic feet or more, designed and constructed to permit being lifted with its contents intact and intended primarily for containment of packages (in unit form) during transportation.

Fuel cell means an electrochemical device that converts the energy of the chemical reaction between a fuel, such as hydrogen or hydrogen rich gases, alcohols, or hydrocarbons, and an oxidant, such as air or oxygen, to direct current (d.c.) power, heat, and other reaction products.

Fuel cell cartridge or fuel cartridge means an article that stores fuel for discharge into the fuel cell through a valve(s) that controls the discharge of fuel into the fuel cell.

Fuel cell system means a fuel cell with an installed fuel cell cartridge together with wiring, valves, and other attachments that connect the fuel cell or cartridge to the device it powers. The fuel cell or cartridge may be so constructed that it forms an integral part of the device or may be removed and connected manually to the device.

Fuel tank means a tank other than a cargo tank, used to transport flammable or combustible liquid, or compressed gas for the purpose of supplying fuel for propulsion of the transport vehicle to which it is attached, or for the operation of other equipment on the transport vehicle.

Fumigated lading. See §§172.302(g) and 173.9.

Gas means a material which has a vapor pressure greater than 300 kPa (43.5 psia) at 50 °C (122 °F) or is completely gaseous at 20 °C (68 °F) at a standard pressure of 101.3 kPa (14.7 psia).

Gross weight or Gross mass means the weight of a packaging plus the weight of its contents.

Hazard class means the category of hazard assigned to a hazardous material under the definitional criteria of part 173 of this subchapter and the provisions of the §172.101 table. A material may meet the defining criteria for more than one hazard class but is assigned to only one hazard class.

Hazard zone means one of four levels of hazard (Hazard Zones A through D) assigned to gases, as specified in §173.116(a) of this subchapter, and one of two levels of hazards (Hazard Zones A and B) assigned to liquids that are poisonous by inhalation, as specified in §173.133(a) of this subchapter. A hazard zone is based on the LC50 value for acute inhalation toxicity of gases and vapors, as specified in §173.133(a).

Hazardous material means a substance or material that the Secretary of Transportation has determined is capable of posing an unreasonable risk to health, safety, and property when transported in commerce, and has designated as hazardous under section 5103 of Federal hazardous materials transportation law (49 U.S.C. 5103). The term includes hazardous substances, hazardous

wastes, marine pollutants, elevated temperature materials, materials designated as hazardous in the Hazardous Materials Table (see 49 CFR 172.101), and materials that meet the defining criteria for hazard classes and divisions in part 173 of subchapter C of this chapter.

Hazardous substance for the purposes of this subchapter, means a material, including its mixtures and solutions, that—

- (1) Is listed in the appendix A to §172.101 of this subchapter;
- (2) Is in a quantity, in one package, which equals or exceeds the reportable quantity (RQ) listed in the appendix A to §172.101 of this subchapter; and
- (3) When in a mixture or solution—
 - (i) For radionuclides, conforms to paragraph 7 of the appendix A to §172.101.
 - (ii) For other than radionuclides, is in a concentration by weight which equals or exceeds the concentration corresponding to the RQ of the material, as shown in the following table:

RQ pounds (kilograms)	Concentration by weight	
	Percent	PPM
5000 (2270)	10	100,000
1000 (454)	2	20,000
100 (45.4)	0.2	2,000
10 (4.54)	0.02	200
1 (0.454)	0.002	20

The term does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance in appendix A to §172.101 of this subchapter, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).

Hazardous waste, for the purposes of this chapter, means any material that is subject to the Hazardous Waste Manifest Requirements of the U.S. Environmental Protection Agency specified in 40 CFR part 262.

Hazmat means a hazardous material.

Hazmat employee means: (1) A person who is:

(i) Employed on a full-time, part time, or temporary basis by a hazmat employer and who in the course of such full time, part time or temporary employment directly affects hazardous materials transportation safety;

(ii) Self-employed (including an owner-operator of a motor vehicle, vessel, or aircraft) transporting hazardous materials in commerce who in the course of such self-employment directly affects hazardous materials transportation safety;

(iii) A railroad signalman; or

(iv) A railroad maintenance-of-way employee.

(2) This term includes an individual, employed on a full time, part time, or temporary basis by a hazmat employer, or who is self-employed, who during the course of employment:

(i) Loads, unloads, or handles hazardous materials;

(ii) Designs, manufactures, fabricates, inspects, marks, maintains, reconditions, repairs, or tests a package, container or packaging component that is represented, marked, certified, or sold as qualified for use in transporting hazardous material in commerce.

(iii) Prepares hazardous materials for transportation;

(iv) Is responsible for safety of transporting hazardous materials;

(v) Operates a vehicle used to transport hazardous materials.

Hazmat employer means:

(1) A person who employs or uses at least one hazmat employee on a full-time, part time, or temporary basis; and who:

(i) Transports hazardous materials in commerce;

(ii) Causes hazardous materials to be transported in commerce; or

(iii) Designs, manufactures, fabricates, inspects, marks, maintains, reconditions, repairs or tests a package, container, or packaging component that is represented, marked, certified, or sold by that person as qualified for use in transporting hazardous materials in commerce;

(2) A person who is self-employed (including an owner-operator of a motor vehicle, vessel, or aircraft) transporting materials in commerce; and who:

- (i) Transports hazardous materials in commerce;
- (ii) Causes hazardous materials to be transported in commerce; or
- (iii) Designs, manufactures, fabricates, inspects, marks, maintains, reconditions, repairs or tests a package, container, or packaging component that is represented, marked, certified, or sold by that person as qualified for use in transporting hazardous materials in commerce; or

(3) A department, agency, or instrumentality of the United States Government, or an authority of a State, political subdivision of a State, or an Indian tribe; and who:

- (i) Transports hazardous materials in commerce;
- (ii) Causes hazardous materials to be transported in commerce; or
- (iii) Designs, manufactures, fabricates, inspects, marks, maintains, reconditions, repairs or tests a package, container, or packaging component that is represented, marked, certified, or sold by that person as qualified for use in transporting hazardous materials in commerce.

Hermetically sealed means closed by fusion, gasketing, crimping, or equivalent means so that no gas or vapor can enter or escape.

Household waste means any solid waste (including garbage, trash, and sanitary waste from septic tanks) derived from households (including single and multiple residences, hotels and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds, and day-use recreation areas). This term is not applicable to consolidated shipments of household hazardous materials transported from collection centers. A collection center is a central location where household waste is collected.

HMR means the Hazardous Materials Regulations, Parts 171 through 180 of this chapter.

IAEA means International Atomic Energy Agency.

IATA means International Air Transport Association.

ICAO means International Civil Aviation Organization.

IMO means International Maritime Organization.

Incorporated by reference or IBR means a publication or a portion of a publication that is made a part of the regulations of this subchapter. See §171.7.

Infectious substance (etiologic agent). See §173.134 of this subchapter.

Inner packaging means a packaging for which an outer packaging is required for transport. It does not include the inner receptacle of a composite packaging.

Inner receptacle means a receptacle which requires an outer packaging in order to perform its containment function. The inner receptacle may be an inner packaging of a combination packaging or the inner receptacle of a composite packaging.

Intermediate bulk container or IBC means a rigid or flexible portable packaging, other than a cylinder or portable tank, which is designed for mechanical handling. Standards for IBCs manufactured in the United States are set forth in subparts N and O of part 178 of this subchapter.

Intermediate packaging means a packaging which encloses an inner packaging or article and is itself enclosed in an outer packaging.

Intermodal container means a freight container designed and constructed to permit it to be used interchangeably in two or more modes of transport.

Intermodal portable tank or IM portable tank means a specific class of portable tanks designed primarily for international intermodal use.

International transportation means transportation—

- (1) Between any place in the United States and any place in a foreign country;
- (2) Between places in the United States through a foreign country; or
- (3) Between places in one or more foreign countries through the United States.

Irritating material. See §173.132(a)(2) of this subchapter.

Jerrican means a metal or plastic packaging of rectangular or polygonal cross-section.

Large packaging means a packaging that—

- (1) Consists of an outer packaging which contains articles or inner packagings;
- (2) Is designated for mechanical handling;
- (3) Exceeds 400 kg net mass or 450 liters (118.9 gallons) capacity;
- (4) Has a volume of not more than 3 m³ (see §178.801(i) of this subchapter); and
- (5) Conforms to the requirements for the construction, testing and marking of large packagings as specified in the UN Recommendations, Chapter 6.6 (incorporated by reference; see §171.7).

Limited quantity, when specified as such in a section applicable to a particular material, means the maximum amount of a hazardous material for which there is a specific labeling or packaging exception.

Lighter means a mechanically operated flame-producing device employing an ignition device and containing a Class 3 or a Division 2.1 material. For design, capacity, and filling density requirements for lighters containing a Division 2.1 material, see §173.308.

Lighter refill means a pressurized container that does not contain an ignition device but does contain a release device and is intended for use as a replacement cartridge in a lighter or to refill a lighter with a Division 2.1 flammable gas fuel. For capacity limits, see §173.306(h) of this subchapter.

Liquid means a material, other than an elevated temperature material, with a melting point or initial melting point of 20 °C (68 °F) or lower at a standard pressure of 101.3 kPa (14.7 psia). A viscous material for which a specific melting point cannot be determined must be subjected to the procedures specified in ASTM D 4359 “Standard Test Method for Determining Whether a Material is Liquid or Solid” (IBR, see §171.7).

Liquid phase means a material that meets the definition of liquid when evaluated at the higher of the temperature at which it is offered for transportation or at which it is transported, not at the 38 °C (100 °F) temperature specified in ASTM D 4359 (IBR, see §171.7).

Lithium content means the mass of lithium in the anode of a lithium metal or lithium alloy cell. The lithium content of a battery equals the sum of the grams of lithium content contained in the component cells of the battery. For a lithium-ion cell see the definition for “equivalent lithium content”.

Loading incidental to movement means loading by carrier personnel or in the presence of carrier personnel of packaged or containerized hazardous material onto a transport vehicle, aircraft, or vessel for the purpose of transporting it, including the loading, blocking and bracing a hazardous materials package in a freight container or transport vehicle, and segregating a hazardous materials package in a freight container or transport vehicle from incompatible cargo. For a bulk packaging, loading incidental to movement means filling the packaging with a hazardous material for the purpose of transporting it. Loading incidental to movement includes transloading.

Magazine vessel means a vessel used for the receiving, storing, or dispensing of explosives.

Magnetic material. See §173.21(d) of this subchapter.

Marine pollutant, means a material which is listed in appendix B to §172.101 of this subchapter (also see §171.4) and, when in a solution or mixture of one or more marine pollutants, is packaged in a concentration which equals or exceeds:

- (1) Ten percent by weight of the solution or mixture for materials listed in the appendix; or
- (2) One percent by weight of the solution or mixture for materials that are identified as severe marine pollutants in the appendix.

Marking means a descriptive name, identification number, instructions, cautions, weight, specification, or UN marks, or combinations thereof, required by this subchapter on outer packagings of hazardous materials.

Material of trade means a hazardous material, other than a hazardous waste, that is carried on a motor vehicle—

- (1) For the purpose of protecting the health and safety of the motor vehicle operator or passengers;
- (2) For the purpose of supporting the operation or maintenance of a motor vehicle (including its auxiliary equipment); or
- (3) By a private motor carrier (including vehicles operated by a rail carrier) in direct support of a principal business that is other than transportation by motor vehicle.

Material poisonous by inhalation means:

(1) A gas meeting the defining criteria in §173.115(c) of this subchapter and assigned to Hazard Zone A, B, C, or D in accordance with §173.116(a) of this subchapter;

(2) A liquid (other than as a mist) meeting the defining criteria in §173.132(a)(1)(iii) of this subchapter and assigned to Hazard Zone A or B in accordance with §173.133(a) of this subchapter; or

(3) Any material identified as an inhalation hazard by a special provision in column 7 of the §172.101 table.

Maximum allowable working pressure or MAWP: For DOT specification cargo tanks used to transport liquid hazardous materials, see §178.320(a) of this subchapter.

Maximum capacity means the maximum inner volume of receptacles or packagings.

Maximum net mass means the allowable maximum net mass of contents in a single packaging, or as used in subpart M of part 178 of this subchapter, the maximum combined mass of inner packaging, and the contents thereof.

Metered delivery service means a cargo tank unloading operation conducted at a metered flow rate of 378.5 L (100 gallons) per minute or less through an attached delivery hose with a nominal inside diameter of 3.175 cm (1 1/4 inches) or less.

Miscellaneous hazardous material. See §173.140 of this subchapter.

Mixture means a material composed of more than one chemical compound or element.

Mode means any of the following transportation methods; rail, highway, air, or water.

Motor vehicle includes a vehicle, machine, tractor, trailer, or semitrailer, or any combination thereof, propelled or drawn by mechanical power and used upon the highways in the transportation of passengers or property. It does not include a vehicle, locomotive, or car operated exclusively on a rail or rails, or a trolley bus operated by electric power derived from a fixed overhead wire, furnishing local passenger transportation similar to street-railway service.

Movement means the physical transfer of a hazardous material from one geographic location to another by rail car, aircraft, motor vehicle, or vessel.

Multiple-element gas container or MEGC means assemblies of UN cylinders, tubes, or bundles of cylinders interconnected by a manifold and assembled within a framework. The term includes all service equipment and structural equipment necessary for the transport of gases.

Name of contents means the proper shipping name as specified in §172.101 of this subchapter.

Navigable waters means, for the purposes of this subchapter, waters of the United States, including the territorial seas.

Non-bulk packaging means a packaging which has:

- (1) A maximum capacity of 450 L (119 gallons) or less as a receptacle for a liquid;
- (2) A maximum net mass of 400 kg (882 pounds) or less and a maximum capacity of 450 L (119 gallons) or less as a receptacle for a solid; or
- (3) A water capacity of 454 kg (1000 pounds) or less as a receptacle for a gas as defined in §173.115 of this subchapter.

Nonflammable gas. See §173.115 of this subchapter.

N.O.S. means not otherwise specified.

N.O.S. description means a shipping description from the §172.101 table which includes the abbreviation n.o.s.

NPT means an American Standard taper pipe thread conforming to the requirements of NBS Handbook H-28 (IBR, see §171.7).

NRC (non-reusable container) means a packaging (container) whose reuse is restricted in accordance with the provisions of §173.28 of this subchapter.

Occupied caboose means a rail car being used to transport non-passenger personnel.

Officer in Charge, Marine Inspection means a person from the civilian or military branch of the Coast Guard designated as such by the Commandant and who under the supervision and direction of the Coast Guard District Commander is in charge of a designated inspection zone for the performance of duties with respect to the enforcement and administration of title 52, Revised Statutes, acts amendatory thereof or supplemental thereto, rules and regulations thereunder, and the inspection required thereby.

Offshore supply vessel means a cargo vessel of less than 500 gross tons that regularly transports goods, supplies or equipment in support of exploration or production of offshore mineral or energy resources.

Operator means a person who controls the use of an aircraft, vessel, or vehicle.

Organic peroxide. See §173.128 of this subchapter.

ORM means other regulated material. See §173.144 of this subchapter.

Outage or **ullage** means the amount by which a packaging falls short of being liquid full, usually expressed in percent by volume.

Outer packaging means the outermost enclosure of a composite or combination packaging together with any absorbent materials, cushioning and any other components necessary to contain and protect inner receptacles or inner packagings.

Overpack, except as provided in subpart K of part 178 of this subchapter, means an enclosure that is used by a single consignor to provide protection or convenience in handling of a package or to consolidate two or more packages. Overpack does not include a transport vehicle, freight container, or aircraft unit load device. Examples of overpacks are one or more packages:

- (1) Placed or stacked onto a load board such as a pallet and secured by strapping, shrink wrapping, stretch wrapping, or other suitable means; or
- (2) Placed in a protective outer packaging such as a box or crate.

Oxidizer. See §173.127 of this subchapter.

Oxidizing gas means a gas which may, generally by providing oxygen, cause or contribute to the combustion of other material more than air does.

Oxygen generator (chemical) means a device containing chemicals that upon activation release oxygen as a product of chemical reaction.

Package or **Outside Package** means a packaging plus its contents. For radioactive materials, see §173.403 of this subchapter.

Packaging means a receptacle and any other components or materials necessary for the receptacle to perform its containment function in conformance with the minimum packing requirements of this subchapter. For radioactive materials packaging, see §173.403 of this subchapter.

Packing group means a grouping according to the degree of danger presented by hazardous materials. Packing Group I indicates great danger; Packing Group II, medium danger; Packing Group III, minor danger. See §172.101(f) of this subchapter.

Passenger (With respect to vessels and for the purposes of part 176 only) means a person being carried on a vessel other than:

- (1) The owner or his representative;
- (2) The operator;
- (3) A bona fide member of the crew engaged in the business of the vessel who has contributed no consideration for his carriage and who is paid for his services; or
- (4) A guest who has not contributed any consideration directly or indirectly for his carriage.

Passenger-carrying aircraft means an aircraft that carries any person other than a crewmember, company employee, an authorized representative of the United States, or a person accompanying the shipment.

Passenger vessel means—

- (1) A vessel subject to any of the requirements of the International Convention for the Safety of Life at Sea, 1974, which carries more than 12 passengers;
- (2) A cargo vessel documented under the laws of the United States and not subject to that Convention, which carries more than 16 passengers;
- (3) A cargo vessel of any foreign nation that extends reciprocal privileges and is not subject to that Convention and which carries more than 16 passengers; and
- (4) A vessel engaged in a ferry operation and which carries passengers.

Person means an individual, corporation, company, association, firm, partnership, society, joint stock company; or a government, Indian tribe, or authority of a government or tribe offering a hazardous material for transportation in commerce or transporting a hazardous material to support a commercial enterprise. This term does not include the United States Postal Service or, for purposes of 49 U.S.C. 5123 and 5124, a Department, agency, or instrumentality of the government.

Person who offers or offeror means:

(1) Any person who does either or both of the following:

(i) Performs, or is responsible for performing, any pre-transportation function required under this subchapter for transportation of the hazardous material in commerce.

(ii) Tenders or makes the hazardous material available to a carrier for transportation in commerce.

(2) A carrier is not an offeror when it performs a function required by this subchapter as a condition of acceptance of a hazardous material for transportation in commerce (e.g. , reviewing shipping papers, examining packages to ensure that they are in conformance with this subchapter, or preparing shipping documentation for its own use) or when it transfers a hazardous material to another carrier for continued transportation in commerce without performing a pre-transportation function.

PHMSA means the Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, Washington, DC 20590.

Placarded car means a rail car which is placarded in accordance with the requirements of part 172 of this subchapter.

Poisonous gas. See §173.115 of this subchapter.

Poisonous materials. See §173.132 of this subchapter.

Portable tank means a bulk packaging (except a cylinder having a water capacity of 1000 pounds or less) designed primarily to be loaded onto, or on, or temporarily attached to a transport vehicle or ship and equipped with skids, mountings, or accessories to facilitate handling of the tank by mechanical means. It does not include a cargo tank, tank car, multi-unit tank car tank, or trailer carrying 3AX, 3AAX, or 3T cylinders.

Preferred route or Preferred highway is a highway for shipment of highway route controlled quantities of radioactive materials so designated by a State routing agency, and any Interstate System highway for which an alternative highway has not been designated by such State agency as provided by §397.103 of this title.

Pre-transportation function means a function specified in the HMR that is required to assure the safe transportation of a hazardous material in commerce, including—

- (1) Determining the hazard class of a hazardous material.
- (2) Selecting a hazardous materials packaging.
- (3) Filling a hazardous materials packaging, including a bulk packaging.
- (4) Securing a closure on a filled or partially filled hazardous materials package or container or on a package or container containing a residue of a hazardous material.
- (5) Marking a package to indicate that it contains a hazardous material.
- (6) Labeling a package to indicate that it contains a hazardous material.
- (7) Preparing a shipping paper.
- (8) Providing and maintaining emergency response information.
- (9) Reviewing a shipping paper to verify compliance with the HMR or international equivalents.
- (10) For each person importing a hazardous material into the United States, providing the shipper with timely and complete information as to the HMR requirements that will apply to the transportation of the material within the United States.
- (11) Certifying that a hazardous material is in proper condition for transportation in conformance with the requirements of the HMR.
- (12) Loading, blocking, and bracing a hazardous materials package in a freight container or transport vehicle.
- (13) Segregating a hazardous materials package in a freight container or transport vehicle from incompatible cargo.
- (14) Selecting, providing, or affixing placards for a freight container or transport vehicle to indicate that it contains a hazardous material.

Primary hazard means the hazard class of a material as assigned in the §172.101 table.

Private track or **Private siding** means: (i) Track located outside of a carrier's right-of-way, yard, or terminals where the carrier does not own the rails, ties, roadbed, or right-of-way, or

(ii) Track leased by a railroad to a lessee, where the lease provides for, and actual practice entails, exclusive use of that trackage by the lessee and/or a general system railroad for purpose of moving only cars shipped to or by the lessee, and where the lessor otherwise exercises no control over or responsibility for the trackage or the cars on the trackage.

Proper shipping name means the name of the hazardous material shown in Roman print (not italics) in §172.101 of this subchapter.

PSI means pounds per square inch.

PSIA means pounds per square inch absolute.

PSIG means pounds per square inch gauge.

Public vessel means a vessel owned by and being used in the public service of the United States. It does not include a vessel owned by the United States and engaged in a trade or commercial service or a vessel under contract or charter to the United States.

Pyrophoric liquid. See §173.124(b) of this subchapter.

Radioactive materials. See §173.403 of this subchapter for definitions relating to radioactive materials.

Rail car means a car designed to carry freight or non-passenger personnel by rail, and includes a box car, flat car, gondola car, hopper car, tank car, and occupied caboose.

Railroad means a person engaged in transportation by rail.

Receptacle means a containment vessel for receiving and holding materials, including any means of closing.

Registered Inspector means a person registered with the Department in accordance with subpart F of part 107 of this chapter who has the knowledge and ability to determine whether a cargo tank conforms to the applicable DOT specification. A Registered Inspector meets the knowledge and ability requirements of this section by meeting any one of the following requirements:

- (1) Has an engineering degree and one year of work experience relating to the testing and inspection of cargo tanks;
- (2) Has an associate degree in engineering and two years of work experience relating to the testing and inspection of cargo tanks;
- (3) Has a high school diploma (or General Equivalency Diploma) and three years of work experience relating to the testing and inspection of cargo tanks;
or
- (4) Has at least three years' experience performing the duties of a Registered Inspector prior to September 1, 1991.

Regulated medical waste. See §173.134 of this subchapter.

Reportable quantity (RQ) for the purposes of this subchapter means the quantity specified in column 2 of the appendix to §172.101 for any material identified in column 1 of the appendix.

Research means investigation or experimentation aimed at the discovery of new theories or laws and the discovery and interpretation of facts or revision of accepted theories or laws in the light of new facts. Research does not include the application of existing technology to industrial endeavors.

Residue means the hazardous material remaining in a packaging, including a tank car, after its contents have been unloaded to the maximum extent practicable and before the packaging is either refilled or cleaned of hazardous material and purged to remove any hazardous vapors.

SADT means self-accelerated decomposition temperature. See §173.21(f) of this subchapter.

Salvage packaging means a special packaging conforming to §173.3 of this subchapter into which damaged, defective, leaking, or non-conforming hazardous materials packages, or hazardous materials that have spilled or leaked, are placed for purposes of transport for recovery or disposal.

SCF (standard cubic foot) means one cubic foot of gas measured at 60 °F. and 14.7 psia.

Secretary means the Secretary of Transportation.

Self-defense spray means an aerosol or non-pressurized device that:

(1) Is intended to have an irritating or incapacitating effect on a person or animal; and

(2) Meets no hazard criteria other than for Class 9 (for example, a pepper spray; see §173.140(a) of this subchapter) and, for an aerosol, Division 2.1 or 2.2 (see §173.115 of this subchapter), except that it may contain not more than two percent by mass of a tear gas substance (e.g., chloroacetophenone (CN) or 0-chlorobenzylmalonitrile (CS); see §173.132(a)(2) of this subchapter.)

Settled pressure means the pressure exerted by the contents of a UN pressure receptacle in thermal and diffusive equilibrium.

Sharps. See §173.134 of this subchapter.

Shipping paper means a shipping order, bill of lading, manifest or other shipping document serving a similar purpose and prepared in accordance with subpart C of part 172 of this chapter.

Siftproof packaging means a packaging impermeable to dry contents, including fine solid material produced during transportation.

Single packaging means a non-bulk packaging other than a combination packaging.

Solid means a material which is not a gas or a liquid.

Solution means any homogeneous liquid mixture of two or more chemical compounds or elements that will not undergo any segregation under conditions normal to transportation.

Special permit means a document issued by the Associate Administrator under the authority of 49 U.S.C. 5117 permitting a person to perform a function that is not otherwise permitted under subchapter A or C of this chapter, or other regulations issued under 49 U.S.C. 5101 et seq. (e.g., Federal Motor Carrier Safety routing requirements). The terms “special permit” and “exemption” have the same meaning for purposes of subchapter A or C of this chapter or other regulations issued under 49 U.S.C. 5101 through 5127. An exemption issued prior to October 1, 2005 remains valid until it is past its expiration date, terminated by the Associate Administrator, or issued as a special permit, whichever occurs first.

Specification packaging means a packaging conforming to one of the specifications or standards for packagings in part 178 or part 179 of this subchapter.

Spontaneously combustible material. See §173.124(b) of this subchapter.

Stabilized means that the hazardous material is in a condition that precludes uncontrolled reaction. This may be achieved by methods such as adding an inhibiting chemical, degassing the hazardous material to remove dissolved oxygen and inerting the air space in the package, or maintaining the hazardous material under temperature control.

State means a State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, the Commonwealth of the Northern Mariana Islands, the Virgin Islands, American Samoa, Guam, or any other territory or possession of the United States designated by the Secretary.

State-designated route means a preferred route selected in accordance with U.S. DOT “Guidelines for Selecting Preferred Highway Routes for Highway Route Controlled Quantities of Radioactive Materials” or an equivalent routing analysis which adequately considers overall risk to the public.

Storage incidental to movement means storage of a transport vehicle, freight container, or package containing a hazardous material by any person between the time that a carrier takes physical possession of the hazardous material for the purpose of transporting it in commerce until the package containing the hazardous material is physically delivered to the destination indicated on a shipping document, package marking, or other medium, or, in the case of a private motor carrier, between the time that a motor vehicle driver takes physical possession of the hazardous material for the purpose of transporting it in commerce until the driver relinquishes possession of the package at its destination and is no longer responsible for performing functions subject to the HMR with respect to that particular package.

(1) Storage incidental to movement includes—

(i) Storage at the destination shown on a shipping document, including storage at a transloading facility, provided the shipping documentation identifies the shipment as a through-shipment and identifies the final destination or destinations of the hazardous material; and

(ii) Rail cars containing hazardous materials that are stored on track that does not meet the definition of “private track or siding” in §171.8, even if those cars have been delivered to the destination shown on the shipping document.

(2) Storage incidental to movement does not include storage of a hazardous material at its final destination as shown on a shipping document.

Stowage means the act of placing hazardous materials on board a vessel.

Strong outside container means the outermost enclosure which provides protection against the unintentional release of its contents under conditions normally incident to transportation.

Subsidiary hazard means a hazard of a material other than the primary hazard. (See primary hazard).

Table in §172.101 or §172.101 table means the Hazardous Materials Table in §172.101 of this subchapter.

Technical name means a recognized chemical name or microbiological name currently used in scientific and technical handbooks, journals, and texts. Generic descriptions are authorized for use as technical names provided they readily identify the general chemical group, or microbiological group. Examples of acceptable generic chemical descriptions are organic phosphate compounds, petroleum aliphatic hydrocarbons and tertiary amines. For proficiency testing only, generic microbiological descriptions such as bacteria, mycobacteria, fungus, and viral samples may be used. Except for names which appear in subpart B of part 172 of this subchapter, trade names may not be used as technical names.

TOFC means trailer-on-flat-car.

Top shell means the tank car tank surface, excluding the head ends and bottom shell of the tank car tank.

Toxin. See §173.134 of this subchapter.

Trailership means a vessel, other than a carfloat, specifically equipped to carry motor transport vehicles and fitted with installed securing devices to tie down each vehicle. The term trailership includes Roll-on/Roll-off (RO/RO) vessels.

Train means one or more engines coupled with one or more rail cars, except during switching operations or where the operation is that of classifying and assembling rail cars within a railroad yard for the purpose of making or breaking up trains.

Trainship means a vessel other than a rail car ferry or carfloat, specifically equipped to transport railroad vehicles, and fitted with installed securing devices to tie down each vehicle.

Transloading means the transfer of a hazardous material by any person from one bulk packaging to another bulk packaging, from a bulk packaging to a non-bulk packaging, or from a non-bulk packaging to a bulk packaging for the purpose of continuing the movement of the hazardous material in commerce.

Transport vehicle means a cargo-carrying vehicle such as an automobile, van, tractor, truck, semitrailer, tank car or rail car used for the transportation of cargo by any mode. Each cargo-carrying body (trailer, rail car, etc.) is a separate transport vehicle.

Transportation or **transport** means the movement of property and loading, unloading, or storage incidental to that movement.

UFC means Uniform Freight Classification.

UN means United Nations.

UN cylinder means a transportable pressure receptacle with a water capacity not exceeding 150 L that has been marked and certified as conforming to the applicable requirements in part 178 of this subchapter.

UN portable tank means an intermodal tank having a capacity of more than 450 liters (118.9 gallons). It includes a shell fitted with service equipment and structural equipment, including stabilizing members external to the shell and skids, mountings or accessories to facilitate mechanical handling. A UN portable tank must be capable of being filled and discharged without the removal of its structural equipment and must be capable of being lifted when full. Cargo tanks, rail tank car tanks, non-metallic tanks, non-specification tanks, bulk bins, and IBCs and packagings made to cylinder specifications are not UN portable tanks.

UN pressure receptacle means a UN cylinder or tube.

UN Recommendations means the UN Recommendations on the Transport of Dangerous Goods (IBR, see §171.7).

UN standard packaging means a packaging conforming to standards in the UN Recommendations (IBR, see §171.7).

UN tube means a seamless transportable pressure receptacle with a water capacity exceeding 150 L but not more than 3,000 L that has been marked and certified as conforming to the requirements in part 178 of this subchapter.

Undeclared hazardous material means a hazardous material that is: (1) Subject to any of the hazard communication requirements in subparts C (Shipping Papers), D (Marking), E (Labeling), and F (Placarding) of Part 172 of this subchapter, or an alternative marking requirement in Part 173 of this subchapter (such as §§173.4(a)(10) and 173.6(c)); and (2) offered for transportation in commerce without any visible indication to the person accepting the hazardous material for transportation that a hazardous material is present, on either an accompanying shipping document, or the outside of a transport vehicle, freight container, or package.

Unintentional release means the escape of a hazardous material from a package on an occasion not anticipated or planned. This includes releases resulting from collision, package failures, human error, criminal activity, negligence, improper packing, or unusual conditions such as the operation of pressure relief devices as a result of over-pressurization, overfill or fire exposure. It does not include releases, such as venting of packages, where allowed, and the operational discharge of contents from packages.

Unit load device means any type of freight container, aircraft container, aircraft pallet with a net, or aircraft pallet with a net over an igloo.

United States means a State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, the Commonwealth of the Northern Mariana Islands, the Virgin Islands, American Samoa, Guam, or any other territory or possession of the United States designated by the Secretary.

Unloading incidental to movement means removing a packaged or containerized hazardous material from a transport vehicle, aircraft, or vessel, or for a bulk packaging, emptying a hazardous material from the bulk packaging after the hazardous material has been delivered to the consignee when performed by carrier personnel or in the presence of carrier personnel or, in the case of a private motor carrier, while the driver of the motor vehicle from which the hazardous material is being unloaded immediately after movement is completed is present during the unloading operation. (Emptying a hazardous material from a bulk packaging while the packaging is on board a vessel is subject to separate regulations as delegated by Department of Homeland Security Delegation No. 0170.1 at 2(103).) Unloading incidental to movement includes transloading.

Vessel includes every description of watercraft, used or capable of being used as a means of transportation on the water.

Viscous liquid means a liquid material which has a measured viscosity in excess of 2500 centistokes at 25 °C. (77 °F.) when determined in accordance with the procedures specified in ASTM Method D 445–72 “Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity)” or

ASTM Method D 1200–70 “Viscosity of Paints, Varnishes, and Lacquers by Ford Viscosity Cup.”

Volatility refers to the relative rate of evaporation of materials to assume the vapor state.

Water reactive material. See §173.124(c) of this subchapter.

Water resistant means having a degree of resistance to permeability by and damage caused by water in liquid form.

Wooden barrel means a packaging made of natural wood, of round cross-section, having convex walls, consisting of staves and heads and fitted with hoops.

Working pressure for purposes of UN pressure receptacles, means the settled pressure of a compressed gas at a reference temperature of 15 °C (59 °F).

W.T. means watertight.

49 CFR (Code of Federal Regulations)

The following sections have been taken directly from 49CFR (volume 2 revised as of October 1, 2008) and have been included in this guide as assistance to your questions and preparation of the hazardous material package. A complete print of all sections can be found in the latest hardcopy version or accessing the Internet through address <http://hazmat.dot.gov>.

Subpart D—Marking

§ 172.315 Packages containing limited quantities.

Except for transportation by aircraft or as otherwise provided in this subchapter, a package containing a limited quantity of hazardous materials is not required to be marked with the proper shipping name provided it is marked with the identification (ID) number, preceded by the letters “UN” or “NA,” as applicable, for the entry as shown in the §172.101 Table, and placed within a square-on-point border in accordance with the following:

(a) The ID number marking must be durable, legible and of such a size relative to the package as to be readily visible. The width of line forming the square-on-point must be at least 2 mm and the height of the ID number must be at least 6 mm.

The marking must be applied on at least one side or one end of the outer packaging.

(b) When two or more hazardous materials with different ID numbers are contained in the package, the packaging must be marked with either individual square-on-points bearing a single ID number, or a single square-on-point large enough to include each applicable ID number.

(c) As applicable, the letters “RQ” must be marked in association with the square-on-point border containing the identification (ID) number.

Subpart H—Training

§ 172.700 Purpose and scope.

(a) Purpose. This subpart prescribes requirements for training hazmat employees.

(b) Scope. Training as used in this subpart means a systematic program that ensures a hazmat employee has familiarity with the general provisions of this subchapter, is able to recognize and identify hazardous materials, has knowledge of specific requirements of this subchapter applicable to functions performed by the employee, and has knowledge of emergency response information, self-protection measures and accident prevention methods and procedures (see §172.704).

(c) Modal-specific training requirements. Additional training requirements for the individual modes of transportation are prescribed in parts 174, 175, 176, and 177 of this subchapter.

§ 172.701 Federal-State relationship.

This subpart and the parts referenced in §172.700(c) prescribe minimum training requirements for the transportation of hazardous materials. For motor vehicle drivers, however, a State may impose more stringent training requirements only if those requirements—

(a) Do not conflict with the training requirements in this subpart and in part 177 of this subchapter; and

(b) Apply only to drivers domiciled in that State.

§ 172.702 Applicability and responsibility for training and testing.

(a) A hazmat employer shall ensure that each of its hazmat employees is trained in accordance with the requirements prescribed in this subpart.

(b) Except as provided in §172.704(c)(1), a hazmat employee who performs any function subject to the requirements of this subchapter may not perform that function unless instructed in the requirements of this subchapter that apply to that function. It is the duty of each hazmat employer to comply with the applicable requirements of this subchapter and to thoroughly instruct each hazmat employee in relation thereto.

(c) Training may be provided by the hazmat employer or other public or private sources.

(d) A hazmat employer shall ensure that each of its hazmat employees is tested by appropriate means on the training subjects covered in §172.704.

§ 172.704 Training requirements.

(a) Hazmat employee training must include the following:

(1) *General awareness/familiarization training.* Each hazmat employee shall be provided general awareness/familiarization training designed to provide familiarity with the requirements of this subchapter, and to enable the employee to recognize and identify hazardous materials consistent with the hazard communication standards of this subchapter.

(2) *Function-specific training.* (i) Each hazmat employee must be provided function-specific training concerning requirements of this subchapter, or exemptions or special permits issued under subchapter A of this chapter, that are specifically applicable to the functions the employee performs.

(ii) As an alternative to function-specific training on the requirements of this subchapter, training relating to the requirements of the ICAO Technical Instructions and the IMDG Code may be provided to the extent such training addresses functions authorized by subpart C of part 171 of this subchapter.

(3) *Safety training.* Each hazmat employee shall receive safety training concerning—

(i) Emergency response information required by subpart G of part 172;

(ii) Measures to protect the employee from the hazards associated with hazardous materials to which they may be exposed in the work place, including specific measures the hazmat employer has implemented to protect employees from exposure; and

(iii) Methods and procedures for avoiding accidents, such as the proper procedures for handling packages containing hazardous materials.

(4) *Security awareness training.* No later than the date of the first scheduled recurrent training after March 25, 2003, and in no case later than March 24, 2006, each hazmat employee must receive training that provides an awareness of security risks associated with hazardous materials transportation and methods designed to enhance transportation security. This training must also include a component covering how to recognize and respond to possible security threats. After March 25, 2003, new hazmat employees must receive the security awareness training required by this paragraph within 90 days after employment.

(5) *In-depth security training.* By December 22, 2003, each hazmat employee of a person required to have a security plan in accordance with subpart I of this part must be trained concerning the security plan and its implementation. Security training must include company security objectives, specific security procedures, employee responsibilities, actions to take in the event of a security breach, and the organizational security structure.

(b) *OSHA, EPA, and other training.* Training conducted by employers to comply with the hazard communication programs required by the Occupational Safety and Health Administration of the Department of Labor (29 CFR 1910.120 or 1910.1200) or the Environmental Protection Agency (40 CFR 311.1), or training conducted by employers to comply with security training programs required by other Federal or international agencies, may be used to satisfy the training requirements in paragraph (a) of this section to the extent that such training addresses the training components specified in paragraph (a) of this section.

(c) *Initial and recurrent training* —(1) *Initial training.* A new hazmat employee, or a hazmat employee who changes job functions may perform those functions prior to the completion of training provided—

(i) The employee performs those functions under the direct supervision of a properly trained and knowledgeable hazmat employee; and

(ii) The training is completed within 90 days after employment or a change in job function.

(2) *Recurrent training.* A hazmat employee shall receive the training required by this subpart at least once every three years.

(3) *Relevant Training.* Relevant training received from a previous employer or other source may be used to satisfy the requirements of this subpart provided a current record of training is obtained from hazmat employees' previous employer.

(4) *Compliance.* Each hazmat employer is responsible for compliance with the requirements of this subchapter regardless of whether the training required by this subpart has been completed.

(d) *Recordkeeping.* A record of current training, inclusive of the preceding three years, in accordance with this section shall be created and retained by each hazmat employer for as long as that employee is employed by that employer as a hazmat employee and for 90 days thereafter. The record shall include:

- (1) The hazmat employee's name;
- (2) The most recent training completion date of the hazmat employee's training;
- (3) A description, copy, or the location of the training materials used to meet the requirements in paragraph (a) of this section;
- (4) The name and address of the person providing the training; and
- (5) Certification that the hazmat employee has been trained and tested, as required by this subpart.

(e) *Limitations.* The following limitations apply:

(1) A hazmat employee who repairs, modifies, reconditions, or tests packagings, as qualified for use in the transportation of hazardous materials, and who does not perform any other function subject to the requirements of this subchapter, is not subject to the training requirement of paragraph (a)(3) of this section.

(2) A railroad maintenance-of-way employee or railroad signalman, who does not perform any function subject to the requirements of this subchapter, is not subject to the training requirements of paragraphs (a)(2), (a)(4), or (a)(5) of this section. Initial training for a railroad maintenance-of-way employee or railroad signalman in accordance with this section must be completed by October 1, 2006.

Subpart I—Security Plans

§ 172.800 Purpose and applicability

(a) *Purpose.* This subpart prescribes requirements for development and implementation of plans to address security risks related to the transportation of hazardous materials in commerce.

(b) *Applicability.* By September 25, 2003, each person who offers for transportation in commerce or transports in commerce one or more of the

following hazardous materials must develop and adhere to a security plan for hazardous materials that conforms to the requirements of this subpart:

- (1) A highway route-controlled quantity of a Class 7 (radioactive) material, as defined in §173.403 of this subchapter, in a motor vehicle, rail car, or freight container;
- (2) More than 25 kg (55 pounds) of a Division 1.1, 1.2, or 1.3 (explosive) material in a motor vehicle, rail car, or freight container;
- (3) More than one L (1.06 qt) per package of a material poisonous by inhalation, as defined in §171.8 of this subchapter, that meets the criteria for Hazard Zone A, as specified in §§173.116(a) or 173.133(a) of this subchapter;
- (4) A shipment of a quantity of hazardous materials in a bulk packaging having a capacity equal to or greater than 13,248 L (3,500 gallons) for liquids or gases or more than 13.24 cubic meters (468 cubic feet) for solids;
- (5) A shipment in other than a bulk packaging of 2,268 kg (5,000 pounds) gross weight or more of one class of hazardous materials for which placarding of a vehicle, rail car, or freight container is required for that class under the provisions of subpart F of this part;
- (6) A select agent or toxin regulated by the Centers for Disease Control and Prevention under 42 CFR part 73 or, by April 1, 2007, a select agent or toxin regulated by the United States Department of Agriculture under 9 CFR part 121; or
- (7) A quantity of hazardous material that requires placarding under the provisions of subpart F of this part.

(c) *Exceptions.* Transportation activities of a farmer, who generates less than \$500,000 annually in gross receipts from the sale of agricultural commodities or products, are not subject to this subpart if such activities are:

- (1) Conducted by highway or rail;
- (2) In direct support of their farming operations; and
- (3) Conducted within a 150-mile radius of those operations.

§ 172.802 Components of a security plan

(a) The security plan must include an assessment of possible transportation security risks for shipments of the hazardous materials listed in §172.800 and appropriate measures to address the assessed risks. Specific measures put into

place by the plan may vary commensurate with the level of threat at a particular time. At a minimum, a security plan must include the following elements:

(1) *Personnel security*. Measures to confirm information provided by job applicants hired for positions that involve access to and handling of the hazardous materials covered by the security plan. Such confirmation system must be consistent with applicable Federal and State laws and requirements concerning employment practices and individual privacy.

(2) *Unauthorized access*. Measures to address the assessed risk that unauthorized persons may gain access to the hazardous materials covered by the security plan or transport conveyances being prepared for transportation of the hazardous materials covered by the security plan.

(3) *En route security*. Measures to address the assessed security risks of shipments of hazardous materials covered by the security plan en route from origin to destination, including shipments stored incidental to movement.

(b) The security plan must be in writing and must be retained for as long as it remains in effect. Copies of the security plan, or portions thereof, must be available to the employees who are responsible for implementing it, consistent with personnel security clearance or background investigation restrictions and a demonstrated need to know. The security plan must be revised and updated as necessary to reflect changing circumstances. When the security plan is updated or revised, all copies of the plan must be maintained as of the date of the most recent revision.

§ 172.804 Relationship to other Federal requirements

To avoid unnecessary duplication of security requirements, security plans that conform to regulations, standards, protocols, or guidelines issued by other Federal agencies, international organizations, or industry organizations may be used to satisfy the requirements in this subpart, provided such security plans address the requirements specified in this subpart.

§ 173.3 Packaging and exceptions

(a) The packaging of hazardous materials for transportation by air, highway, rail, or water must be as specified in this part. Methods of manufacture, packing, and storage of hazardous materials, that affect safety in transportation, must be open to inspection by a duly authorized representative of the initial carrier or of the Department. Methods of manufacture and related functions necessary for completion of a DOT specification or U.N. standard packaging must be open to inspection by a representative of the Department.

(b) The regulations setting forth packaging requirements for a specific material apply to all modes of transportation unless otherwise stated, or unless exceptions from packaging requirements are authorized.

(c) *Salvage drums*. Packages of hazardous materials that are damaged, defective, or leaking; packages found to be not conforming to the requirements of this subchapter after having been placed in transportation; and, hazardous materials that have spilled or leaked may be placed in a metal or plastic removable head salvage drum that is compatible with the lading and shipped for repackaging or disposal under the following conditions:

(1) Except as provided in paragraph (c)(7) of this section, the drum must be a UN 1A2, 1B2, 1N2 or 1H2 tested and marked for Packing Group III or higher performance standards for liquids or solids and a leakproofness test of 20 kPa (3 psig). Alternatively, a drum manufactured and marked prior to October 1, 1993 as a salvage drum, in accordance with the provisions of this section in effect on September 30, 1991, is authorized. Capacity of the drum may not exceed 450 L (119 gallons).

(2) Each drum shall be provided when necessary with sufficient cushioning and absorption material to prevent excessive shifting of the damaged package and to eliminate the presence of any free liquid at the time the salvage drum is closed. All cushioning and absorbent material used in the drum must be compatible with the hazardous material.

(3) Each salvage packaging must be marked with the proper shipping name of the hazardous material inside the packaging and the name and address of the consignee. In addition, the packaging must be marked "SALVAGE" or "SALVAGE DRUM".

(4) Each drum shall be labeled as prescribed for the respective material.

(5) The shipper shall prepare shipping papers in accordance with subpart C of part 172 of this subchapter.

(6) The overpack requirements of §173.25 do not apply to drums used in accordance with this paragraph.

(7) A salvage packaging marked "T" in accordance with applicable provisions in the UN Recommendations may be used.

(d) *Salvage cylinders* . Cylinders of hazardous materials that are damaged or leaking may be overpacked in a non-DOT specification full opening hinged head or fully removable head steel salvage cylinder under the following conditions:

(1) Only a cylinder containing a Division 2.1, 2.2, 2.3, 3, 6.1, or a Class 8 material may be overpacked in a salvage cylinder. A cylinder containing acetylene may not be overpacked in a salvage cylinder.

(2) Each salvage cylinder—

(i) Must be designed, constructed and marked in accordance with Section VIII, Division I of the ASME Code (IBR, see §171.7 of this subchapter) with a minimum design margin of 4 to 1. Salvage cylinders may not be equipped with a pressure relief device. Damaged cylinders must be securely positioned in the salvage cylinder to prevent excessive movement. The overpack requirements of §173.25 of this part do not apply to salvage cylinders used in accordance with this section.

(ii) Must have a maximum water capacity of 450 L (119 gallons).

(iii) Except for liquefied nitrous oxide and carbon dioxide, contents of the damaged or leaking cylinder must be limited in pressure and volume so that if totally discharged into the salvage cylinder, the pressure in the salvage cylinder will not exceed $\frac{5}{4}$ of the MAWP at 55 °C (131 °F).

(iv) Must have gaskets, valves and fittings that are compatible with the hazardous materials contained within.

(3) Each salvage cylinder must be plainly and durably marked. Unless otherwise specified, the markings below must be in the same area on any portion of the upper end:

(i) The proper shipping name of the hazardous material contained inside the packaging;

(ii) The name and address of the consignee or consignor;

(iii) The name and address or registered symbol of the manufacturer; and

(iv) The words “SALVAGE CYLINDER” in letters at least 50 mm (2.0 inches) high on opposite sides near the middle of the cylinder; stamping on the sidewall is not authorized.

(4) Each salvage cylinder must be labeled for the hazardous material contained inside the packaging.

(5) The shipper must prepare shipping papers in accordance with subpart C of part 172 of this subchapter.

(6) Transportation is authorized by motor vehicle only.

(7) Each salvage cylinder must be cleaned and purged after each use.

(8) In addition to the training requirements of §§172.700 through 172.704 of this subchapter, a person who loads, unloads or transports a salvage cylinder must be trained in handling, loading and unloading the salvage cylinder.

(9) Cylinder Requalification: At least once every five years, each cylinder must be visually inspected (internally and externally) in accordance with CGA Pamphlet C-6 (IBR, see §171.7 of this subchapter) and pressure tested. A minimum test pressure of at least 1 1/2 times MAWP must be maintained for at least 30 seconds. The cylinder must be examined under test pressure and removed from service if a leak or a defect is found.

(i) The retest and inspection must be performed by a person familiar with salvage cylinders and trained and experienced in the use of the inspection and testing equipment.

(ii) Each salvage cylinder that is successfully requalified must be durably and legibly marked with the word "Tested" followed by the requalification date (month/year), e.g. , "Tested 9/04." The marking must be in letters and numbers at least 12 mm (0.5 inches) high. The requalification marking may be placed on any portion of the upper end of the cylinder near the marking required in (d)(3) of this section or on a metal plate permanently secured to the cylinder. Stamping on the cylinder sidewall is not authorized.

(10) Record retention: The owner of each salvage cylinder or his authorized agent shall retain a record of the most recent visual inspection and pressure test until the salvage cylinder is requalified. The records must be made available to a DOT representative upon request.

(e) *Emergency transportation of DOT 3A480 or 3AA480 cylinders and DOT 106A500 multi-unit tank car tanks.* (1) A DOT 3A480 or DOT 3AA480 cylinder containing chlorine or sulphur dioxide that has developed a leak in a valve or fusible plug may be repaired temporarily by trained personnel using a Chlorine Institute Kit "A" (IBR, see §171.7 of this subchapter). The repaired cylinder is authorized to be transported by private or contract carrier one time, one way, from the point of discovery to a proper facility for discharge and examination.

(2) A DOT 106A500 multi-unit tank car tank containing chlorine or sulphur dioxide that has developed a leak in the valve or fusible plug may be temporarily repaired by trained personnel using a Chlorine Institute Kit "B" (IBR, see §171.7 of this subchapter). The repaired tank is authorized to be transported by private or contract carrier one time, one way, from the point of discovery to a proper facility for discharge and examination.

(3) Training for personnel making the repairs in paragraphs (d)(1) and (d)(2) of this section must include:

- (i) Proper use of the devices and tools in the applicable kits;
- (ii) Use of respiratory equipment and all other safety equipment; and
- (iii) Knowledge of the properties of chlorine and sulphur dioxide.

(4) Packagings repaired with “A” or “B” kits must be properly blocked and braced to ensure the packagings are secured in the transport vehicle.

§ 173.4 Small quantity exceptions.

(a) When transported domestically by highway or rail in conformance with this section, small quantities of Class 3, Division 4.1, Division 4.2 (PG II and III), Division 4.3 (PG II and III), Division 5.1, Division 5.2, Division 6.1, Class 7, Class 8, and Class 9 materials that also meet the definition of one or more of these hazard classes, are not subject to any other requirements of this subchapter when—

(1) The maximum quantity of material per inner receptacle or article is limited to—

- (i) Thirty (30) mL (1 ounce) for authorized liquids, other than Division 6.1, Packing Group I, Hazard Zone A or B materials;
- (ii) Thirty (30) g (1 ounce) for authorized solid materials;
- (iii) One (1) g (0.04 ounce) for authorized materials meeting the definition of a Division 6.1, Packing Group I, Hazard Zone A or B material; and
- (iv) An activity level not exceeding that specified in §§173.421, 173.424, 173.425 or 173.426, as appropriate, for a package containing a Class 7 (radioactive) material.

(2) With the exception of temperature sensing devices, each inner receptacle:

- (i) Is not liquid-full at 55 °C (131 °F), and
- (ii) Is constructed of plastic having a minimum thickness of no less than 0.2 mm (0.008 inch), or earthenware, glass, or metal;

(3) Each inner receptacle with a removable closure has its closure held securely in place with wire, tape, or other positive means;

(4) Unless equivalent cushioning and absorbent material surrounds the inside packaging, each inner receptacle is securely packed in an inside packaging with cushioning and absorbent material that:

(i) Will not react chemically with the material, and

(ii) Is capable of absorbing the entire contents (if a liquid) of the receptacle;

(5) The inside packaging is securely packed in a strong outside packaging;

(6) The completed package, as demonstrated by prototype testing, is capable of sustaining—

(i) Each of the following free drops made from a height of 1.8 m (5.9 feet) directly onto a solid unyielding surface without breakage or leakage from any inner receptacle and without a substantial reduction in the effectiveness of the package:

(A) One drop flat on bottom;

(B) One drop flat on top;

(C) One drop flat on the long side;

(D) One drop flat on the short side; and

(E) One drop on a corner at the junction of three intersecting edges; and

(ii) A compressive load as specified in §178.606(c) of this subchapter.

Note to paragraph (a)(6): Each of the tests in paragraph (a)(6) of this section may be performed on a different but identical package; i.e. , all tests need not be performed on the same package.

(7) Placement of the material in the package or packing different materials in the package does not result in a violation of §173.21;

(8) The gross mass of the completed package does not exceed 29 kg (64 pounds);

(9) The package is not opened or otherwise altered until it is no longer in commerce; and

(10) The shipper certifies conformance with this section by marking the outside of the package with the statement “This package conforms to 49 CFR 173.4 for domestic highway or rail transport only.”

(b) A package containing a Class 7 (radioactive) material also must conform to the requirements of §173.421(a)(1) through (a)(5) or §173.424(a) through (g), as appropriate.

(c) Packages which contain a Class 2, Division 4.2 (PG I), or Division 4.3 (PG I) material conforming to paragraphs (a)(1) through (a)(10) of this section may be offered for transportation or transported if specifically approved by the Associate Administrator.

(d) Lithium batteries and cells are not eligible for the exceptions provided in this section.

§ 173.13 Exceptions for Class 3, Divisions 4.1, 4.2, 4.3, 5.1, 6.1, and Classes 8 and 9 materials

(a) A Class 3, 8 or 9, or Division 4.1, 4.2, 4.3, 5.1, or 6.1 material is excepted from the labeling (except for the CARGO AIRCRAFT ONLY label), placarding and segregation requirements of this subchapter if prepared for transportation in accordance with the requirements of this section. A material that meets the definition of a material poisonous by inhalation may not be offered for transportation or transported under provisions of this section.

(b) A hazardous material conforming to the requirements of this section may be transported by motor vehicle and rail car. In addition, packages prepared in accordance with this section may be transported by aircraft under the following conditions:

(1) *Cargo-only aircraft* . Only hazardous materials permitted to be transported aboard either a passenger or cargo-only aircraft by column (9A) or (9B) of the Hazardous Materials Table in §172.101 of this subchapter are authorized aboard cargo-only aircraft.

(2) *Passenger carrying aircraft* . Only hazardous materials permitted to be transported aboard a passenger aircraft by column (9A) of the Hazardous Materials Table in §172.101 of this subchapter are authorized aboard passenger aircraft. The completed package, assembled as for transportation, must be successfully tested in accordance with part 178 of this subchapter at the Packing Group I level. A hazardous material which meets the definition of a Division 5.1 (oxidizer) at the Packing Group I level in accordance with §173.127(b)(1)(i) of this subchapter may not be transported aboard a passenger aircraft.

(3) Packages offered for transportation aboard either passenger or cargo-only aircraft must meet the requirements for transportation by aircraft specified in §173.27 of this subchapter.

(c) A hazardous material permitted by paragraph (a) of this section must be packaged as follows:

(1) For liquids:

(i) The hazardous material must be placed in a tightly closed glass, plastic or metal inner packaging with a maximum capacity not exceeding 1.2 L. Sufficient outage must be provided such that the inner packaging will not become liquid full at 55 °C (130 °F). The net quantity (measured at 20 °C (68 °F)) of liquid in any inner packaging may not exceed 1 L. For transportation by aircraft, the net quantity in one package may not exceed the quantity specified in columns (9A) or (9B), as appropriate.

(ii) The inner packaging must be placed in a hermetically sealed barrier bag which is impervious to the lading, and then wrapped in a non-reactive absorbent material in sufficient quantity to completely absorb the contents of the inner packaging, and placed in a snugly fitting, metal can.

(iii) The metal can must be securely closed. For liquids that are in Division 4.2 or 4.3, the metal can must be hermetically sealed. For Division 4.2 materials in Packing Group I, the metal can must be tested in accordance with part 178 of this subchapter at the Packing Group I performance level.

(iv) The metal can must be placed in a fiberboard box that is placed in a hermetically sealed barrier bag which is impervious to the lading.

(v) The intermediate packaging must be placed inside a securely closed, outer packaging conforming to §173.201.

(vi) Not more than four intermediate packagings are permitted in an outer packaging.

(2) For solids:

(i) The hazardous material must be placed in a tightly closed glass, plastic or metal inner packaging. The net quantity of material in any inner packaging may not exceed 2.85kg (6.25 pounds). For transportation by aircraft, the net quantity in one package may not exceed the quantity specified in columns (9A) or (9B), as appropriate.

(ii) The inner packaging must be placed in a hermetically sealed barrier bag which is impervious to the lading.

(iii) The barrier bag and its contents must be placed in a fiberboard box that is placed in a hermetically-sealed barrier bag which is impervious to the lading.

(iv) The intermediate packaging must be placed inside an outer packaging conforming to §173.211.

(v) Not more than four intermediate packagings are permitted in an outer packaging.

(d) The outside of the package must be marked, in association with the proper shipping name, with the statement: "This package conforms to 49 CFR 173.13."

§ 173.24 General requirements for packagings and packages.

(a) Applicability. Except as otherwise provided in this subchapter, the provisions of this section apply to—

(1) Bulk and non-bulk packagings;

(2) New packagings and packagings which are reused; and

(3) Specification and non-specification packagings.

(b) Each package used for the shipment of hazardous materials under this subchapter shall be designed, constructed, maintained, filled, its contents so limited, and closed, so that under conditions normally incident to transportation—

(1) Except as otherwise provided in this subchapter, there will be no identifiable (without the use of instruments) release of hazardous materials to the environment;

(2) The effectiveness of the package will not be substantially reduced; for example, impact resistance, strength, packaging compatibility, etc. must be maintained for the minimum and maximum temperatures, changes in humidity and pressure, and shocks, loadings and vibrations, normally encountered during transportation;

(3) There will be no mixture of gases or vapors in the package which could, through any credible spontaneous increase of heat or pressure, significantly reduce the effectiveness of the packaging;

(4) There will be no hazardous material residue adhering to the outside of the package during transport.

(c) Authorized packagings. A packaging is authorized for a hazardous material only if—

(1) The packaging is prescribed or permitted for the hazardous material in a packaging section specified for that material in Column 8 of the §172.101 table and conforms to applicable requirements in the special provisions of Column 7 of the §172.101 table and, for specification packagings (but not including UN standard packagings manufactured outside the United States), the specification requirements in parts 178 and 179 of this subchapter; or

(2) The packaging is permitted under, and conforms to, provisions contained in subparts B or C of part 171 of this subchapter or §§173.3, 173.4, 173.4a, 173.4b, 173.5, 173.5a, 173.6, 173.7, 173.8, 173.27, or §176.11 of this subchapter.

(d) *Specification packagings and UN standard packagings manufactured outside the U.S.* —(1) *Specification packagings.* A specification packaging, including a UN standard packaging manufactured in the United States, must conform in all details to the applicable specification or standard in part 178 or part 179 of this subchapter.

(2) UN standard packagings manufactured outside the United States. A UN standard packaging manufactured outside the United States, in accordance with national or international regulations based on the UN Recommendations (IBR, see §171.7 of this subchapter), may be imported and used and is considered to be an authorized packaging under the provisions of paragraph (c)(1) of this section, subject to the following conditions and limitations:

(i) The packaging fully conforms to applicable provisions in the UN Recommendations and the requirements of this subpart, including reuse provisions;

(ii) The packaging is capable of passing the prescribed tests in part 178 of this subchapter applicable to that standard; and

(iii) The competent authority of the country of manufacture provides reciprocal treatment for UN standard packagings manufactured in the U.S.

(e) *Compatibility.* (1) Even though certain packagings are specified in this part, it is, nevertheless, the responsibility of the person offering a hazardous material for transportation to ensure that such packagings are compatible with their lading. This particularly applies to corrosivity, permeability, softening, premature aging and embrittlement.

(2) Packaging materials and contents must be such that there will be no significant chemical or galvanic reaction between the materials and contents of the package.

(3) *Plastic packagings and receptacles.* (i) Plastic used in packagings and receptacles must be of a type compatible with the lading and may not be

permeable to an extent that a hazardous condition is likely to occur during transportation, handling or refilling.

(ii) Each plastic packaging or receptacle which is used for liquid hazardous materials must be capable of withstanding without failure the procedure specified in appendix B of this part ("Procedure for Testing Chemical Compatibility and Rate of Permeation in Plastic Packagings and Receptacles"). The procedure specified in appendix B of this part must be performed on each plastic packaging or receptacle used for Packing Group I materials. The maximum rate of permeation of hazardous lading through or into the plastic packaging or receptacles may not exceed 0.5 percent for materials meeting the definition of a Division 6.1 material according to §173.132 and 2.0 percent for other hazardous materials, when subjected to a temperature no lower than—

(A) 18 °C (64 °F) for 180 days in accordance with Test Method 1 in appendix B of this part;

(B) 50 °C (122 °F) for 28 days in accordance with Test Method 2 in appendix B of this part; or

(C) 60 °C (140 °F) for 14 days in accordance with Test Method 3 in appendix B of this part.

(iii) Alternative procedures or rates of permeation are permitted if they yield a level of safety equivalent to or greater than that provided by paragraph (e)(3)(ii) of this section and are specifically approved by the Associate Administrator.

(4) Mixed contents. Hazardous materials may not be packed or mixed together in the same outer packaging with other hazardous or nonhazardous materials if such materials are capable of reacting dangerously with each other and causing—

(i) Combustion or dangerous evolution of heat;

(ii) Evolution of flammable, poisonous, or asphyxiant gases; or

(iii) Formation of unstable or corrosive materials.

(5) Packagings used for solids, which may become liquid at temperatures likely to be encountered during transportation, must be capable of containing the hazardous material in the liquid state.

(f) Closures. (1) Closures on packagings shall be so designed and closed that under conditions (including the effects of temperature, pressure and vibration) normally incident to transportation—

(i) Except as provided in paragraph (g) of this section, there is no identifiable release of hazardous materials to the environment from the opening to which the closure is applied; and

(ii) The closure is leakproof and secured against loosening. For air transport, stoppers, corks or other such friction closures must be held in place by positive means.

(2) Except as otherwise provided in this subchapter, a closure (including gaskets or other closure components, if any) used on a specification packaging must conform to all applicable requirements of the specification and must be closed in accordance with information, as applicable, provided by the manufacturer's notification required by §178.2 of this subchapter.

(g) *Venting.* Venting of packagings, to reduce internal pressure which may develop by the evolution of gas from the contents, is permitted only when—

(1) Except for shipments of cryogenic liquids as specified in §173.320(c) and of carbon dioxide, solid (dry ice), transportation by aircraft is not involved;

(2) Except as otherwise provided in this subchapter, the evolved gases are not poisonous, likely to create a flammable mixture with air or be an asphyxiant under normal conditions of transportation;

(3) The packaging is designed so as to preclude an unintentional release of hazardous materials from the receptacle;

(4) For bulk packagings, other than IBCs, venting is authorized for the specific hazardous material by a special provision in the §172.101 table or by the applicable bulk packaging specification in part 178 of this subchapter; and

(5) Intermediate bulk packagings (IBCs) may be vented when required to reduce internal pressure that may develop by the evolution of gas subject to the requirements of paragraphs (g)(1) through (g)(3) of this section. The IBC must be of a type that has successfully passed (with the vent in place) the applicable design qualification tests with no release of hazardous material.

(h) Outage and filling limits—(1) *General.* When filling packagings and receptacles for liquids, sufficient ullage (outage) must be left to ensure that neither leakage nor permanent distortion of the packaging or receptacle will occur as a result of an expansion of the liquid caused by temperatures likely to be encountered during transportation. Requirements for outage and filling limits for non-bulk and bulk packagings are specified in §§173.24a(d) and 173.24b(a), respectively.

(2) *Compressed gases and cryogenic liquids.* Filling limits for compressed gases and cryogenic liquids are specified in §§173.301 through 173.306 for cylinders and §§173.314 through 173.319 for bulk packagings.

(i) *Air transportation.* Except as provided in subpart C of part 171 of this subchapter, packages offered or intended for transportation by aircraft must conform to the general requirements for transportation by aircraft in §173.27.

§ 173.24a Additional general requirements for non-bulk packagings and packages

(a) *Packaging design.* Except as provided in §172.312 of this subchapter:

(1) *Inner packaging closures.* A combination packaging containing liquid hazardous materials must be packed so that closures on inner packagings are upright.

(2) *Friction.* The nature and thickness of the outer packaging must be such that friction during transportation is not likely to generate an amount of heat sufficient to alter dangerously the chemical stability of the contents.

(3) *Securing and cushioning.* Inner packagings of combination packagings must be so packed, secured and cushioned to prevent their breakage or leakage and to control their shifting within the outer packaging under conditions normally incident to transportation. Cushioning material must not be capable of reacting dangerously with the contents of the inner packagings or having its protective properties significantly weakened in the event of leakage.

(4) *Metallic devices.* Nails, staples and other metallic devices shall not protrude into the interior of the outer packaging in such a manner as to be likely to damage inner packagings or receptacles.

(5) *Vibration.* Each non-bulk package must be capable of withstanding, without rupture or leakage, the vibration test procedure specified in §178.608 of this subchapter.

(b) *Non-bulk packaging filling limits.* (1) A single or composite non-bulk packaging may be filled with a liquid hazardous material only when the specific gravity of the material does not exceed that marked on the packaging, or a specific gravity of 1.2 if not marked, except as follows:

(i) A Packing Group I packaging may be used for a Packing Group II material with a specific gravity not exceeding the greater of 1.8, or 1.5 times the specific gravity marked on the packaging, provided all the performance criteria can still be met with the higher specific gravity material;

(ii) A Packing Group I packaging may be used for a Packing Group III material with a specific gravity not exceeding the greater of 2.7, or 2.25 times the specific gravity marked on the packaging, provided all the performance criteria can still be met with the higher specific gravity material; and

(iii) A Packing Group II packaging may be used for a Packing Group III material with a specific gravity not exceeding the greater of 1.8, or 1.5 times the specific gravity marked on the packaging, provided all the performance criteria can still be met with the higher specific gravity material.

(2) Except as otherwise provided in this section, a non-bulk packaging may not be filled with a hazardous material to a gross mass greater than the maximum gross mass marked on the packaging.

(3) A single or composite non-bulk packaging which is tested and marked for liquid hazardous materials may be filled with a solid hazardous material to a gross mass, in kilograms, not exceeding the rated capacity of the packaging in liters, multiplied by the specific gravity marked on the packaging, or 1.2 if not marked. In addition:

(i) A single or composite non-bulk packaging which is tested and marked for Packing Group I liquid hazardous materials may be filled with a solid Packing Group II hazardous material to a gross mass, in kilograms, not exceeding the rated capacity of the packaging in liters, multiplied by 1.5, multiplied by the specific gravity marked on the packaging, or 1.2 if not marked.

(ii) A single or composite non-bulk packaging which is tested and marked for Packing Group I liquid hazardous materials may be filled with a solid Packing Group III hazardous material to a gross mass, in kilograms, not exceeding the rated capacity of the packaging in liters, multiplied by 2.25, multiplied by the specific gravity marked on the packaging, or 1.2 if not marked.

(iii) A single or composite non-bulk packaging which is tested and marked for Packing Group II liquid hazardous materials may be filled with a solid Packing Group III hazardous material to a gross mass, in kilograms, not exceeding the rated capacity of the packaging in liters, multiplied by 1.5, multiplied by the specific gravity marked on the packaging, or 1.2 if not marked.

(4) Packagings tested as prescribed in §178.605 of this subchapter and marked with the hydrostatic test pressure as prescribed in §178.503(a)(5) of this subchapter may be used for liquids only when the vapor pressure of the liquid conforms to one of the following:

(i) The vapor pressure must be such that the total pressure in the packaging (i.e., the vapor pressure of the liquid plus the partial pressure of air or other inert gases, less 100 kPa (15 psia)) at 55 °C (131 °F), determined on the basis of a

maximum degree of filling in accordance with paragraph (d) of this section and a filling temperature of 15 °C (59 °F)), will not exceed two-thirds of the marked test pressure;

(ii) The vapor pressure at 50 °C (122 °F) must be less than four-sevenths of the sum of the marked test pressure plus 100 kPa (15 psia); or

(iii) The vapor pressure at 55 °C (131 °F) must be less than two-thirds of the sum of the marked test pressure plus 100 kPa (15 psia).

(5) No hazardous material may remain on the outside of a package after filling.

(c) *Mixed contents.* (1) An outer non-bulk packaging may contain more than one hazardous material only when—

(i) The inner and outer packagings used for each hazardous material conform to the relevant packaging sections of this part applicable to that hazardous material;

(ii) The package as prepared for shipment meets the performance tests prescribed in part 178 of this subchapter for the packing group indicating the highest order of hazard for the hazardous materials contained in the package;

(iii) Corrosive materials (except ORM-D) in bottles are further packed in securely closed inner receptacles before packing in outer packagings; and

(iv) For transportation by aircraft, the total net quantity does not exceed the lowest permitted maximum net quantity per package as shown in Column 9a or 9b, as appropriate, of the §172.101 table. The permitted maximum net quantity must be calculated in kilograms if a package contains both a liquid and a solid.

(2) A packaging containing inner packagings of Division 6.2 materials may not contain other hazardous materials except—

(i) Refrigerants, such as dry ice or liquid nitrogen, as authorized under the HMR;

(ii) Anticoagulants used to stabilize blood or plasma; or

(iii) Small quantities of Class 3, Class 8, Class 9, or other materials in Packing Groups II or III used to stabilize or prevent degradation of the sample, provided the quantity of such materials does not exceed 30 mL (1 ounce) or 30 g (1 ounce) in each inner packaging. The maximum quantity in an outer package, including a hazardous material used to preserve or stabilize a sample, may not exceed 4 L (1 gallon) or 4 kg (8.8 pounds). Such preservatives are not subject to the requirements of this subchapter.

(d) Liquids must not completely fill a receptacle at a temperature of 55 °C (131 °F) or less.

§ 173.29 Empty packagings.

(a) General. Except as otherwise provided in this section, an empty packaging containing only the residue of a hazardous material shall be offered for transportation and transported in the same manner as when it previously contained a greater quantity of that hazardous material.

(b) Notwithstanding the requirements of paragraph (a) of this section, an empty packaging is not subject to any other requirements of this subchapter if it conforms to the following provisions:

(1) Any hazardous material shipping name and identification number markings, any hazard warning labels or placards, and any other markings indicating that the material is hazardous (e.g., RQ, INHALATION HAZARD) are removed, obliterated, or securely covered in transportation. This provision does not apply to transportation in a transport vehicle or a freight container if the packaging is not visible in transportation and the packaging is loaded by the shipper and unloaded by the shipper or consignee;

(2) The packaging—

(i) Is unused;

(ii) Is sufficiently cleaned of residue and purged of vapors to remove any potential hazard;

(iii) Is refilled with a material which is not hazardous to such an extent that any residue remaining in the packaging no longer poses a hazard; or

(iv) Contains only the residue of—

(A) An ORM-D material; or

(B) A Division 2.2 non-flammable gas, other than ammonia, anhydrous, and with no subsidiary hazard, at an absolute pressure less than 280 kPa (40.6 psia); at 20 °C (68 °F); and

(3) Any material contained in the packaging does not meet the definitions in §171.8 of this subchapter for a hazardous substance, a hazardous waste, or a marine pollutant.

(c) A non-bulk packaging containing only the residue of a hazardous material covered by Table 2 of §172.504 of this subchapter that is not a material

poisonous by inhalation or its residue shipped under the subsidiary placarding provisions of §172.505—

(1) Does not have to be included in determining the applicability of the placarding requirements of subpart F of part 172 of this subchapter; and

(2) Is not subject to the shipping paper requirements of this subchapter when collected and transported by a contract or private carrier for reconditioning, remanufacture or reuse.

(d) Notwithstanding the stowage requirements in Column 10a of the §172.101 table for transportation by vessel, an empty drum or cylinder may be stowed on deck or under deck.

(e) Specific provisions for describing an empty packaging on a shipping paper appear in §172.203(e) of this subchapter.

(f) [Reserved]

(g) A package which contains a residue of an elevated temperature material may remain marked in the same manner as when it contained a greater quantity of the material even though it no longer meets the definition in §171.8 of this subchapter for an elevated temperature material.

(h) A package that contains a residue of a hazardous substance, Class 9, listed in the §172.101 Table, Appendix A, Table I, that does not meet the definition of another hazard class and is not a hazardous waste or marine pollutant, may remain marked, labeled and, if applicable, placarded in the same manner as when it contained a greater quantity of the material even though it no longer meets the definition in §171.8 of this subchapter for a hazardous substance.

§ 173.56 New explosives—definition and procedures for classification and approval

(a) Definition of new explosive. For the purposes of this subchapter a *new explosive* means an explosive produced by a person who:

(1) Has not previously produced that explosive; or

(2) Has previously produced that explosive but has made a change in the formulation, design or process so as to alter any of the properties of the explosive. An explosive will not be considered a “new explosive” if an agency listed in paragraph (b) of this section has determined, and confirmed in writing to the Associate Administrator, that there are no significant differences in hazard characteristics from the explosive previously approved.

(b) Examination, classing and approval. Except as provided in paragraph (j) of this section, no person may offer a new explosive for transportation unless that person has specified to the examining agency the ranges of composition of ingredients and compounds, showing the intended manufacturing tolerances in the composition of substances or design of articles which will be allowed in that material or device, and unless it has been examined, classed and approved as follows:

(1) Except for an explosive made by or under the direction or supervision of the Department of Defense (DOD) or the Department of Energy (DOE), a new explosive must be examined and assigned a recommended shipping description, division and compatibility group, based on the tests and criteria prescribed in §§173.52, 173.57 and 173.58. The person requesting approval of the new explosive must submit to the Associate Administrator a report of the examination and assignment of a recommended shipping description, division, and compatibility group. If the Associate Administrator finds the approval request meets the regulatory criteria, the new explosive will be approved in writing and assigned an EX number. The examination must be performed by a person who is approved by the Associate Administrator under the provisions of subpart H of part 107 of this chapter and who—

(i) Has (directly, or through an employee involved in the examination) at least ten years of experience in the examination, testing and evaluation of explosives;

(ii) Does not manufacture or market explosives, and is not controlled by or financially dependent on any entity that manufactures or markets explosives, and whose work with respect to explosives is limited to examination, testing and evaluation; and

(iii) Is a resident of the United States.

(2) A new explosive made by or under the direction or supervision of a component of the DOD may be examined, classed, and concurred in by:

(i) U.S. Army Technical Center for Explosives Safety (SMCAC-EST), Naval Sea Systems Command (SEA-9934), or Air Force Safety Agency (SEW), when approved by the Chairman, DOD Explosives Board, in accordance with the DOD Explosives Hazard Classification Procedures (IBR, see §171.7 of the subchapter); or

(ii) The agencies and procedures specified in paragraph (b)(1) of this section.

(3) A new explosive made by or under the direction or supervision of the Department of Energy (DOE) may be—

(i) Examined by the DOE in accordance with the DOD Explosives Hazard Classification Procedures, and must be classed and approved by DOE; or

(ii) Examined, classed, and approved in accordance with paragraph (b)(1) of this section.

(4) For a material shipped under the description of “ammonium nitrate-fuel oil mixture (ANFO)”, the only test required for classification purposes is the Cap Sensitivity Test—Test Method 5(a) prescribed in the Explosive Test Manual (UN Manual of Tests and Criteria) (IBR, see §171.7 of the subchapter). The test must be performed by an agency listed in paragraph (b)(1), (b)(2), or (b)(3) of this section, the manufacturer, or the shipper. A copy of the test report must be submitted to the Associate Administrator before the material is offered for transportation, and a copy of the test report must be retained by the shipper for as long as that material is shipped. At a minimum, the test report must contain the name and address of the person or organization conducting the test, date of the test, quantitative description of the mixture, including prill size and porosity, and a description of the test results.

(c) Filing DOD or DOE approval report. DOD or DOE must file a copy of each approval, accompanied by supporting laboratory data, with the Associate Administrator and receive acknowledgement in writing before offering the new explosive for transportation, unless the new explosive is:

(1) Being transported under paragraph (d) or (e) of this section; or

(2) Covered by a national security classification currently in effect.

(d) Transportation of explosive samples for examination. Notwithstanding the requirements of paragraph (b) of this section with regard to the transportation of a new explosive that has not been approved, a person may offer a sample of a new explosive for transportation, by railroad, highway, or vessel from the place where it was produced to an agency identified in paragraph (b) of this section, for examination if—

(1) The new explosive has been assigned a tentative shipping description and class in writing by the testing agency;

(2) The new explosive is packaged as required by this part according to the tentative description and class assigned, unless otherwise specified in writing by the testing agency; and,

(3) The package is labeled as required by this subchapter and the following is marked on the package:

(i) The words “SAMPLE FOR LABORATORY EXAMINATION”;

(ii) The net weight of the new explosive; and

(iii) The tentative shipping name and identification number.

(e) Transportation of unapproved explosives for developmental testing.

Notwithstanding the requirements of paragraph (b) of this section, the owner of a new explosive that has not been examined or approved may transport that new explosive from the place where it was produced to an explosives testing range if—

(1) It is not a primary (a 1.1A initiating) explosive or a forbidden explosive according to this subchapter;

(2) It is described as a Division 1.1 explosive (substance or article) and is packed, marked, labeled, described on shipping papers and is otherwise offered for transportation in conformance with the requirements of this subchapter applicable to Division 1.1;

(3) It is transported in a motor vehicle operated by the owner of the explosive; and

(4) It is accompanied by a person, in addition to the operator of the motor vehicle, who is qualified by training and experience to handle the explosive.

(f) Notwithstanding the requirements of paragraphs (b) and (d) of this section, the Associate Administrator may approve a new explosive on the basis of an approval issued for the explosive by the competent authority of a foreign government, or when examination of the explosive by a person approved by the Associate Administrator is impracticable, on the basis of reports of tests conducted by disinterested third parties, or may approve the transportation of an explosives sample for the purpose of examination by a person approved by the Associate Administrator.

(g) An explosive may be transported under subparts B or C of part 171 or §176.11 of this subchapter without the approval of the Associate Administrator as required by paragraph (b) of this section if the Associate Administrator has acknowledged in writing the acceptability of an approval issued by the competent authority of a foreign government pursuant to the provisions of the UN Recommendations, the ICAO Technical Instructions, the IMDG Code (IBR, see §171.7 of this subchapter), or other national or international regulations based on the UN Recommendations. In such a case, a copy of the foreign competent authority approval, and a copy of the written acknowledgement of its acceptance must accompany each shipment of that explosive.

(h) The requirements of this section do not apply to cartridges, small arms which are:

- (1) Not a forbidden explosive under §173.54 of this subchapter;
- (2) Ammunition for rifle, pistol, or shotgun;
- (3) Ammunition with inert projectile or blank ammunition; and
- (4) Ammunition not exceeding 50 caliber for rifle or pistol cartridges or 8 gauge for shotgun shells.

Cartridges, small arms meeting the criteria of this paragraph (h) may be assigned a classification code of 1.4S by the manufacturer.

(i) If experience or other data indicate that the hazard of a material or a device containing an explosive composition is greater or less than indicated according to the definition and criteria specified in §§173.50, 173.56, and 173.58 of this subchapter, the Associate Administrator may specify a classification or except the material or device from the requirements of this subchapter.

(j) Fireworks. Notwithstanding the requirements of paragraph (b) of this section, Division 1.3 and 1.4 fireworks may be classed and approved by the Associate Administrator without prior examination and offered for transportation if the following conditions are met:

(1) The fireworks are manufactured in accordance with the applicable requirements in APA Standard 87–1 (IBR, see §171.7 of this subchapter);

(2) A thermal stability test is conducted on the device by the BOE, the BOM, or the manufacturer. The test must be performed by maintaining the device, or a representative prototype of a large device such as a display shell, at a temperature of 75 °C (167 °F) for 48 consecutive hours. When a device contains more than one component, those components which could be in physical contact with each other in the finished device must be placed in contact with each other during the thermal stability test; and

(3) The manufacturer applies in writing to the Associate Administrator following the applicable requirements in APA Standard 87–1, and is notified in writing by the Associate Administrator that the fireworks have been classed, approved, and assigned an EX-number. Each application must be complete, including all relevant background data and copies of all applicable drawings, test results, and any other pertinent information on each device for which approval is being requested. The manufacturer must sign the application and certify that the device for which approval is requested conforms to APA Standard 87–1 and that the descriptions and technical information contained in the application are complete and accurate. If the application is denied, the manufacturer will be notified in writing of the reasons for the denial. The Associate Administrator may require

that the fireworks be examined by an agency listed in paragraph (b)(1) of this section.

§ 173.63 Packaging exceptions

(a) Cord, detonating (UN 0065), having an explosive content not exceeding 6.5 g (0.23 ounces) per 30 centimeter length (one linear foot) may be offered for transportation domestically and transported as Cord, detonating (UN 0289), Division 1.4 Compatibility Group D (1.4D) explosives, if the gross weight of all packages containing Cord, detonating (UN 0065), does not exceed 45 kg (99 pounds) per:

- (1) Transport vehicle, freight container, or cargo-only aircraft;
- (2) Off-shore down-hole tool pallet carried on an off-shore supply vessel;
- (3) Cargo compartment of a cargo vessel; or
- (4) Passenger-carrying aircraft used to transport personnel to remote work sites, such as offshore drilling units.

(b) *Cartridges, small arms, and cartridges power devices.* (1) Cartridges, small arms, and cartridges power devices (which are used to project fastening devices) which have been classed as a Division 1.4S explosive may be reclassified, offered for transportation, and transported as ORM–D material when packaged in accordance with paragraph (b)(2) of this section. For transportation by aircraft, the package must also comply with the applicable requirements of §173.27 of this subchapter. Such transportation is excepted from the requirements of subparts E (Labeling) and F (Placarding) of part 172 of this subchapter. Cartridges, small arms, and cartridges power devices that may be shipped as ORM–D material are limited to:

- (i) Ammunition for rifle, pistol or shotgun;
- (ii) Ammunition with inert projectiles or blank ammunition;
- (iii) Ammunition having no tear gas, incendiary, or detonating explosive projectiles;
- (iv) Ammunition not exceeding 12.7 mm (50 caliber or 0.5 inch) for rifle or pistol, cartridges or 8 gauge for shotshells; and
- (v) Cartridges, power devices which are used to project fastening devices.

(2) Packaging for cartridges, small arms, and cartridges power devices as ORM–D material must be as follows:

(i) Ammunition must be packed in inside boxes, or in partitions which fit snugly in the outside packaging, or in metal clips;

(ii) Primers must be protected from accidental initiation;

(iii) Inside boxes, partitions or metal clips must be packed in securely-closed strong outside packagings;

(iv) Maximum gross weight is limited to 30 kg (66 pounds) per package; and

(v) Cartridges, power devices which are used to project fastening devices and 22 caliber rim-fire cartridges may be packaged loose in strong outside packagings.

(c)–(e) [Reserved]

(f) Detonators containing no more than 1 g explosive (excluding ignition and delay charges) that are electric blasting caps with leg wires 4 feet long or longer, delay connectors in plastic sheaths, or blasting caps with empty plastic tubing 12 feet long or longer may be packed as follows in which case they are excepted from the packaging requirements of §173.62:

(1) No more than 50 detonators in one inner packaging;

(2) IME Standard 22 container (IBR, see §171.7 of this subchapter) or compartment is used as the outer packaging;

(3) No more than 1000 detonators in one outer packaging; and

(4) No material may be loaded on top of the IME Standard 22 container and no material may be loaded against the outside door of the IME Standard 22 compartment.

(g) Detonators that are classed as 1.4B or 1.4S and contain no more than 1 g of explosive (excluding ignition and delay charges) may be packed as follows in which case they are excepted from the packaging requirements of §173.62:

(1) No more than 50 detonators in one inner packaging;

(2) IME Standard 22 container is used as the outer packaging;

(3) No more than 1000 detonators in one outer packaging; and

(4) Each inner packaging is marked “1.4B Detonators” or “1.4S Detonators”, as appropriate.

§ 173.120 Class 3—Definitions

(a) *Flammable liquid*. For the purpose of this subchapter, a *flammable liquid* (Class 3) means a liquid having a flash point of not more than 60 °C (140 °F), or any material in a liquid phase with a flash point at or above 37.8 °C (100 °F) that is intentionally heated and offered for transportation or transported at or above its flash point in a bulk packaging, with the following exceptions:

(1) Any liquid meeting one of the definitions specified in §173.115.

(2) Any mixture having one or more components with a flash point of 60 °C (140 °F) or higher, that make up at least 99 percent of the total volume of the mixture, if the mixture is not offered for transportation or transported at or above its flash point.

(3) Any liquid with a flash point greater than 35 °C (95 °F) that does not sustain combustion according to ASTM D 4206 (IBR, see §171.7 of this subchapter) or the procedure in appendix H of this part.

(4) Any liquid with a flash point greater than 35 °C (95 °F) and with a fire point greater than 100 °C (212 °F) according to ISO 2592 (IBR, see §171.7 of this subchapter).

(5) Any liquid with a flash point greater than 35 °C (95 °F) which is in a water-miscible solution with a water content of more than 90 percent by mass.

(b) *Combustible liquid*. (1) For the purpose of this subchapter, a *combustible liquid* means any liquid that does not meet the definition of any other hazard class specified in this subchapter and has a flash point above 60 °C (140 °F) and below 93 °C (200 °F).

(2) A flammable liquid with a flash point at or above 38 °C (100 °F) that does not meet the definition of any other hazard class may be reclassified as a combustible liquid. This provision does not apply to transportation by vessel or aircraft, except where other means of transportation is impracticable. An elevated temperature material that meets the definition of a Class 3 material because it is intentionally heated and offered for transportation or transported at or above its flash point may not be reclassified as a combustible liquid.

(3) A combustible liquid that does not sustain combustion is not subject to the requirements of this subchapter as a combustible liquid. Either the test method specified in ASTM D 4206 or the procedure in appendix H of this part may be used to determine if a material sustains combustion when heated under test conditions and exposed to an external source of flame.

(c) Flash point. (1) *Flash point* means the minimum temperature at which a liquid gives off vapor within a test vessel in sufficient concentration to form an ignitable mixture with air near the surface of the liquid. It shall be determined as follows:

(i) For a homogeneous, single-phase, liquid having a viscosity less than 45 S.U.S. at 38 °C (100 °F) that does not form a surface film while under test, one of the following test procedures shall be used:

(A) Standard Method of Test for Flash Point by Tag Closed Tester, (ASTM D 56);

(B) Standard Methods of Test for Flash Point of Liquids by Setaflash Closed Tester, (ASTM D 3278); or

(C) Standard Test Methods for Flash Point by Small Scale Closed Tester, (ASTM D 3828).

(ii) For a liquid other than one meeting all of the criteria of paragraph (c)(1)(i) of this section, one of the following test procedures shall be used:

(A) Standard Method of Test for Flash Point by Pensky—Martens Closed Tester, (ASTM D 93). For cutback asphalt, use Method B of ASTM D 93 or alternate tests authorized in this standard; or

(B) Standard Methods of Test for Flash Point of Liquids by Setaflash Closed Tester (ASTM D 3278).

(2) For a liquid that is a mixture of compounds that have different volatility and flash points, its flash point shall be determined as specified in paragraph (c)(1) of this section, on the material in the form in which it is to be shipped. If it is determined by this test that the flash point is higher than -7 °C (20 °F) a second test shall be made as follows: a portion of the mixture shall be placed in an open beaker (or similar container) of such dimensions that the height of the liquid can be adjusted so that the ratio of the volume of the liquid to the exposed surface area is 6 to one. The liquid shall be allowed to evaporate under ambient pressure and temperature (20 to 25 °C (68 to 77 °F)) for a period of 4 hours or until 10 percent by volume has evaporated, whichever comes first. A flash point is then run on a portion of the liquid remaining in the evaporation container and the lower of the two flash points shall be the flash point of the material.

(3) For flash point determinations by Setaflash closed tester, the glass syringe specified need not be used as the method of measurement of the test sample if a minimum quantity of 2 mL (0.1 ounce) is assured in the test cup.

(d) If experience or other data indicate that the hazard of a material is greater or less than indicated by the criteria specified in paragraphs (a) and (b) of this section, the Associate Administrator may revise the classification or make the

material subject or not subject to the requirements of parts 170–189 of this subchapter.

§ 173.150 Exceptions for Class 3 (flammable and combustible liquids)

(a) *General.* Exceptions for hazardous materials shipments in the following paragraphs are permitted only if this section is referenced for the specific hazardous material in the §172.101 Table of this subchapter.

(b) *Limited quantities.* Limited quantities of flammable liquids (Class 3) and combustible liquids are excepted from labeling requirements, unless the material also meets the definition of Division 6.1 or is offered for transportation or transported by aircraft, and the specification packaging requirements of this subchapter when packaged in combination packagings according to this paragraph. For transportation by aircraft, the package must also comply with the applicable requirements of §173.27 of this subchapter and only hazardous materials authorized aboard passenger-carrying aircraft may be transported as a limited quantity. In addition, shipments of limited quantities are not subject to subpart F (Placarding) of part 172 of this subchapter. Each package must conform to the packaging requirements of subpart B of this part and may not exceed 30 kg (66 pounds) gross weight. The following combination packagings are authorized:

(1) For flammable liquids in Packing Group I, inner packagings not over 0.5 L (0.1 gallon) net capacity each, packed in strong outer packagings;

(2) For flammable liquids in Packing Group II, inner packagings not over 1.0 L (0.3 gallons) net capacity each, unless the material has a subsidiary hazard of Division 6.1, Packing Group II, in which case the inner packagings may not exceed 100 mL (3.38 ounces) net capacity each, packed in a strong outer packaging.

(3) For flammable liquids in Packing Group III and combustible liquids, inner packagings not over 5.0 L (1.3 gallons) net capacity each, packed in strong outer packagings.

(c) *Consumer commodities.* Except for a material that has a subsidiary hazard of Division 6.1, Packing Group II, a limited quantity which conforms to the provisions of paragraph (b) of this section and is a “consumer commodity” as defined in 171.8 of this subchapter, may be renamed “Consumer commodity” and reclassified as ORM–D material. In addition to the exceptions provided by paragraph (b) of this section, shipments of ORM–D materials are not subject to the shipping paper requirements of subpart C of part 172 of this subchapter, unless the material meets the definition of a hazardous substance, hazardous

waste, marine pollutant, or are offered for transportation and transported by aircraft, and are eligible for the exceptions provided in §173.156.

(d) *Alcoholic beverages.* An alcoholic beverage (wine and distilled spirits as defined in 27 CFR 4.10 and 5.11) is not subject to the requirements of this subchapter if it—

- (1) Contains 24 percent or less alcohol by volume;
- (2) Is in an inner packaging of 5 L (1.3 gallons) or less, and for transportation on passenger-carrying aircraft conforms to §175.10(a)(4) of this subchapter as checked or carry-on baggage; or
- (3) Is a Packing Group III alcoholic beverage in a packaging of 250 L (66 gallons) or less, unless transported by air.

(e) *Aqueous solutions of alcohol.* An aqueous solution containing 24 percent or less alcohol by volume and no other hazardous material—

- (1) May be reclassified as a combustible liquid.
- (2) Is not subject to the requirements of this subchapter if it contains no less than 50 percent water.

(f) *Combustible liquids.* (1) A flammable liquid with a flash point at or above 38 °C (100 °F) that does not meet the definition of any other hazard class may be reclassified as a combustible liquid. This provision does not apply to transportation by vessel or aircraft, except where other means of transportation is impracticable.

(2) The requirements in this subchapter do not apply to a material classed as a combustible liquid in a non-bulk packaging unless the combustible liquid is a hazardous substance, a hazardous waste, or a marine pollutant.

(3) A combustible liquid that is in a bulk packaging or a combustible liquid that is a hazardous substance, a hazardous waste, or a marine pollutant is not subject to the requirements of this subchapter except those pertaining to:

- (i) Shipping papers, waybills, switching orders, and hazardous waste manifests;
- (ii) Marking of packages;
- (iii) Display of identification numbers on bulk packages;
- (iv) For bulk packagings only, placarding requirements of subpart F of part 172 of this subchapter;

(v) Carriage aboard aircraft and vessels (for packaging requirements for transport by vessel, see §176.340 of this subchapter);

(vi) Reporting incidents as prescribed by §§171.15 and 171.16 of this subchapter;

(vii) Packaging requirements of subpart B of this part and, in addition, non-bulk packagings must conform with requirements of §173.203;

(viii) The requirements of §§173.1, 173.21, 173.24, 173.24a, 173.24b, 174.1, 177.804, 177.817, 177.834(j), and 177.837(d) of this subchapter;

(ix) The training requirements of subpart H of part 172 of this subchapter.

(x) Emergency response information requirements of subpart G of part 172.

(4) A combustible liquid that is not a hazardous substance, a hazardous waste, or a marine pollutant is not subject to the requirements of this subchapter if it is a mixture of one or more components that—

(i) Has a flash point at or above 93 °C (200 °F),

(ii) Comprises at least 99 percent of the volume of the mixture, and

(iii) Is not offered for transportation or transported as a liquid at a temperature at or above its flash point.

§ 173.151 Exceptions for Class 4

(a) *General.* Exceptions for hazardous materials shipments in the following paragraphs are permitted only if this section is referenced for the specific hazardous material in the §172.101 table of this subchapter.

(b) *Limited quantities of Division 4.1.* Limited quantities of flammable solids (Division 4.1) in Packing Group II or III are excepted from labeling requirements, unless the material also meets the definition of Division 6.1 or is offered for transportation or transported by aircraft, and the specification packaging requirements of this subchapter when packaged in combination packagings according to this paragraph. For transportation by aircraft, the package must also comply with the applicable requirements of §173.27 of this subchapter and only hazardous materials authorized aboard passenger-carrying aircraft may be transported as a limited quantity. In addition, shipments of limited quantities are not subject to subpart F (Placarding) of part 172 of this subchapter. Each package must conform to the packaging requirements of subpart B of this part

and may not exceed 30 kg (66 pounds) gross weight. The following combination packagings are authorized:

(1) For flammable solids in Packing Group II, inner packagings not over 1.0 kg (2.2 pounds) net capacity each, unless the material has a subsidiary hazard of Division 6.1, Packing Group II, in which case the inner packagings may not exceed 0.5 kg (1.1 pounds) net capacity each, packed in a strong outer packaging.

(2) For flammable solids in Packing Group III, inner packagings not over 5.0 kg (11 pounds) net capacity each, packed in a strong outer packaging.

(c) *Consumer commodities.* Except for a material that has a subsidiary hazard of Division 6.1, Packing Group II, a limited quantity which conforms to the provisions of paragraph (b) of this section, and charcoal briquettes in packagings not exceeding 30 kg (66 pounds) gross weight, may be renamed “Consumer commodity” and reclassified as ORM–D material if the material is a “consumer commodity” as defined in §171.8 of this subchapter. In addition to the exceptions provided by paragraph (b) of this section, shipments of ORM–D materials are not subject to the shipping paper requirements of subpart C of part 172 of this subchapter, unless the material meets the definition of a hazardous substance, hazardous waste, marine pollutant, or is offered for transportation and transported by aircraft, and are eligible for the exceptions provided in §173.156.

(d) *Limited quantities of Division 4.3.* Limited quantities of Division 4.3 (dangerous when wet) solids in Packing Group II or III are excepted from labeling requirements, unless the material also meets the definition of Division 6.1 or is offered for transportation or transported by aircraft, and the specification packaging requirements of this subchapter when packaged in combination packagings according to this paragraph. For transportation by aircraft, the package must also comply with the applicable requirements of §173.27 of this subchapter and only hazardous materials authorized aboard passenger-carrying aircraft may be transported as a limited quantity. In addition, shipments of limited quantities are not subject to subpart F (Placarding) of part 172 of this subchapter. Each package must conform to the packaging requirements of subpart B of this part and may not exceed 30 kg (66 pounds) gross weight. The following combination packagings are authorized:

(1) For Division 4.3 solids in Packing Group II, inner packagings not over 0.5 kg (1.1 pound) net capacity each, packed in strong outer packagings; and

(2) For Division 4.3 solids in Packing Group III, inner packagings not over 1 kg (2.2 pounds) net capacity each, packed in strong outer packagings.

§ 173.152 Exceptions for Division 5.1 (oxidizers) and Division 5.2 (organic peroxides)

(a) *General.* Exceptions for hazardous materials shipments in the following paragraphs are permitted only if this section is referenced for the specific hazardous material in the §172.101 table of this subchapter.

(b) *Limited quantities.* Limited quantities of oxidizers (Division 5.1) in Packing Group II and III and organic peroxides (Division 5.2) are excepted from labeling requirements, unless the material also meets the definition of Division 6.1 or is offered for transportation or transported by aircraft, and the specification packaging requirements of this subchapter when packaged in combination packagings according to this paragraph. For transportation by aircraft, the package must also comply with the applicable requirements of §173.27 of this subchapter and only hazardous materials authorized aboard passenger-carrying aircraft may be transported as a limited quantity. In addition, shipments of these limited quantities are not subject to subpart F of part 172 (Placarding) of this subchapter. Each package must conform to the packaging requirements of subpart B of this part and may not exceed 30 kg (66 pounds) gross weight. The following combination packagings are authorized:

(1) For oxidizers in Packing Group II, inner packagings not over 1.0 L (0.3 gallon) net capacity each for liquids or not over 1.0 kg (2.2 pounds) net capacity each for solids, unless the material has a subsidiary hazard of Division 6.1, Packing Group II, in which case the inner packagings may not exceed 100 mL (3.38 ounces) for liquids or 0.5 kg (1.1 pounds) for solids, packed in a strong outer packaging.

(2) For oxidizers in Packing Group III, inner packagings not over 5 L (1.3 gallons) net capacity each for liquids or not over 5.0 kg (11 lbs) net capacity each for solids, and packed in strong outer packagings.

(3) For organic peroxides which do not require temperature control during transportation—

(i) For Type D, E, or F organic peroxides, inner packagings not over 125 mL (4.22 ounces) net capacity each for liquids or 500 g (17.64 ounces) net capacity for solids, packed in strong outer packagings.

(ii) For Type B or C organic peroxides, inner packagings not over 25 mL (0.845 ounces) net capacity each for liquids or 100 g (3.528 ounces) net capacity for solids, packed in strong outer packagings.

(4) For polyester resin kits consisting of a base material component (Class 3, Packing Group II or III) and an activator component (Type C, D, E, or F organic peroxide which does not require temperature control)—

(i) The organic peroxide component must be packed in inner packagings not over 125 mL (4.22 ounces) net capacity each for liquids or 500 g (17.64 ounces) net capacity each for solids;

(ii) The flammable liquid component must be packed in inner packagings not over 5 L (1.3 gallons) net capacity each for Packing Group II or III liquid; and

(iii) The flammable liquid component and the organic peroxide component may be packed in the same strong outer packaging provided they will not interact dangerously in the event of leakage.

(c) *Consumer commodities.* Except for a material that has a subsidiary hazard of Division 6.1, Packing Group II, a limited quantity which conforms to the provisions of paragraph (b) of this section, and is a “consumer commodity” as defined in §171.8 of this subchapter, may be renamed “Consumer commodity” and reclassified as ORM–D. In addition to the exceptions provided by paragraph (b) of this section, shipments of ORM–D materials are not subject to the shipping paper requirements of subpart C of part 172 of this subchapter, unless the material meets the definition of a hazardous substance, hazardous waste, marine pollutant, or are offered for transportation and transported by aircraft, and are eligible for the exceptions provided in §173.156.

§ 173.153 Exceptions for Division 6.1 (poisonous materials)

Note: FedEx Ground does not handle Division 6.1 material unless packaged by a Special Permit or 49 CFR 173.13.

(a) *General.* Exceptions for hazardous materials shipments in the following paragraphs are permitted only if this section is referenced for the specific hazardous material in the §172.101 table of this subchapter.

(b) *Limited quantities of Division 6.1 materials.* The exceptions in this paragraph do not apply to poison-by-inhalation materials. Limited quantities of poisonous materials (Division 6.1) in Packing Group II and III are excepted from the specification packaging requirements of this subchapter when packaged in combination packagings according to this paragraph. For transportation by aircraft, the package must also comply with the applicable requirements of §173.27 of this subchapter and only hazardous materials authorized aboard passenger-carrying aircraft may be transported as a limited quantity. In addition, shipments of these limited quantities are not subject to subpart F of part 172 (Placarding) of this subchapter. Each package must conform to the packaging requirements of subpart B of this part and may not exceed 30 kg (66 pounds) gross weight. The following combination packagings are authorized:

(1) For poisonous materials in Packing Group II, inner packagings not over 100 mL (3.38 ounces) each for liquids or 0.5 kg (1.1 pounds) each for solids, packed in a strong outer packaging.

(2) For poisonous materials in Packing Group III, inner packagings not over 4 L (1.0 gallon) each for liquids or 5.0 kg (11 pounds) each for solids, packed in a strong outer packaging.

(c) *Consumer commodities*. The following provisions apply to consumer commodities:

(1) A limited quantity of poisonous material in Packing Group III which conforms to the provisions of paragraph (b) of this section, and is a “consumer commodity” as defined in §171.8 of this subchapter, may be renamed “Consumer commodity” and reclassified as ORM–D.

(2) A poisonous material which is a drug or medicine and is a “consumer commodity” as defined in §171.8 of this subchapter, may be renamed “Consumer commodity” and reclassified as ORM-D material if packaged in a combination packaging not exceeding 30 kg (66 pounds) with inner packagings not over 250 mL (8 ounces) net capacity for liquids or 250 g (8.8 ounces) net capacity for solids packed in strong outer packagings. Each package must conform to the packaging requirements of subpart B of this part.

(3) Packages of ORM-D material are excepted from the specification packaging requirements of this subchapter and from the labeling requirements of subpart E of part 172 of this subchapter. Shipments of ORM-D material are eligible for the exceptions provided in §173.156 and in paragraph (b) of this section and are not subject to the shipping paper requirements of subpart C of part 172 of this subchapter, unless the material meets the definition of a hazardous substance, a hazardous waste, or a marine pollutant or unless offered for transportation or transported by aircraft.

§ 173.154 Exceptions for Class 8 (corrosive materials)

(a) *General*. Exceptions for hazardous materials shipments in the following paragraphs are permitted only if this section is referenced for the specific hazardous material in the §172.101 table of this subchapter.

(b) *Limited quantities*. Limited quantities of corrosive materials (Class 8) in Packing Group II and III are excepted from labeling requirements, unless the material also meets the definition of Division 6.1 or is offered for transportation or transported by aircraft, and the specification packaging requirements of this subchapter when packaged in combination packagings according to this paragraph. For transportation by aircraft, the package must also comply with the applicable requirements of §173.27 of this subchapter and only hazardous

materials authorized aboard passenger-carrying aircraft may be transported as a limited quantity. In addition, shipments of these limited quantities are not subject to subpart F (Placarding) of part 172 of this subchapter. Each package must conform to the packaging requirements of subpart B of this part and may not exceed 30 kg (66 pounds) gross weight. The following combination packagings are authorized:

(1) For corrosive materials in Packing Group II, inner packagings not over 1.0 L (0.3 gallon) net capacity each for liquids or not over 1.0 kg (2.2 pounds) net capacity each for solids, unless the material has a subsidiary hazard of Division 6.1, Packing Group II in which case the inner packagings may not exceed 100 mL (3.38 ounces) for liquids or 0.5 kg (1.1 pounds) for solids, packed in a strong outer packaging.

(2) For corrosive materials in Packing Group III, in inner packagings not over 5.0 L (1.3 gallons) net capacity each for liquids, or not over 5.0 kg (11 lbs) net capacity each for solids, and packed in strong outer packagings.

(c) *Consumer commodities*. Except for a material that has a subsidiary hazard of Division 6.1, Packing Group II, a limited quantity which conforms to the provisions of paragraph (b) of this section, and is a “consumer commodity” as defined in §171.8 of this subchapter, may be renamed “Consumer commodity” and reclassified as ORM–D. In addition to the exceptions provided by paragraph (b) of this section, shipments of ORM–D materials are not subject to the shipping paper requirements of subpart C of part 172 of this subchapter, unless the material meets the definition of a hazardous substance, hazardous waste, marine pollutant, or are offered for transportation and transported by aircraft, and are eligible for the exceptions provided in §173.156.

(d) *Materials corrosive to aluminum or steel only*. Except for a hazardous substance, a hazardous waste, or a marine pollutant, a material classed as a Class 8, Packing Group III, material solely because of its corrosive effect—

(1) On aluminum is not subject to any other requirements of this subchapter when transported by motor vehicle or rail car in a packaging constructed of materials that will not react dangerously with or be degraded by the corrosive material; or

(2) On steel is not subject to any other requirements of this subchapter when transported by motor vehicle or rail car in a bulk packaging constructed of materials that will not react dangerously with or be degraded by the corrosive material.

§ 173.155 Exceptions for Class 9 (miscellaneous hazardous materials)

(a) *General*. Exceptions for hazardous materials shipments in the following paragraphs are permitted only if this section is referenced for the specific hazardous material in the §172.101 table of this subchapter.

(b) *Limited quantities*. Limited quantities of miscellaneous hazardous materials (Class 9) are excepted from labeling, unless offered for transportation or transported by aircraft, and the specification packaging requirements of this subchapter when packaged in combination packagings according to this paragraph. For transportation by aircraft, the package must also comply with the applicable requirements of §173.27 of this subchapter and only hazardous materials authorized aboard passenger-carrying aircraft may be transported as a limited quantity. In addition, shipments of these limited quantities are not subject to subpart F (Placarding) of part 172 of this subchapter. Each package must conform to the packaging requirements of subpart B of this part and may not exceed 30 kg (66 pounds) gross weight. The following combination packagings are authorized:

(1) For liquids, inner packagings not over 5.0 L (1.3 gallons) net capacity each, packed in strong outer packagings.

(2) For solids, inner packagings not over 5.0 kg (11 pounds) net capacity each, packed in strong outer packagings.

(c) *Consumer commodities*. A limited quantity which conforms to the provisions of paragraph (b) of this section and is a “consumer commodity” as defined in §171.8 of this subchapter, may be renamed “Consumer commodity” and reclassified as ORM-D material. In addition to the exceptions provided by paragraph (b) of this section, shipments of ORM-D materials are not subject to the shipping paper requirements of subpart C of part 172 of this subchapter, unless the material meets the definition of a hazardous substance, a hazardous waste, or a marine pollutant or unless offered for transportation or transported by aircraft, and are eligible for the exceptions provided in §173.156.

§ 173.159 Batteries, wet

(a) Electric storage batteries, containing electrolyte acid or alkaline corrosive battery fluid (wet batteries), may not be packed with other materials except as provided in paragraphs (g) and (h) of this section and in §§173.220 and 173.222; and any battery or battery-powered device must be prepared and packaged for transport in a manner to prevent:

(1) A dangerous evolution of heat (*i.e.* , an amount of heat sufficient to be dangerous to packaging or personal safety to include charring of packaging, melting of packaging, scorching of packaging, or other evidence);

(2) Short circuits, including, but not limited to:

(i) Packaging each battery or each battery-powered device when practicable, in fully enclosed inner packagings made of non-conductive material;

(ii) Separating or packaging batteries and battery-powered devices in a manner to prevent contact with other batteries, devices or conductive materials (e.g. , metal) in the packagings; or

(iii) Ensuring exposed terminals are protected with non-conductive caps, non-conductive tape, or by other appropriate means; and

(3) *Damage to terminals.* If not impact resistant, the outer packaging must not be used as the sole means of protecting the battery terminals from damage or short circuiting. Batteries must be securely cushioned and packed to prevent shifting which could loosen terminal caps or reorient the terminals. Batteries contained in devices must be securely installed. Terminal protection methods include but are not limited to:

(i) Securely attaching covers of sufficient strength to protect the terminals;

(ii) Packaging the battery in a rigid plastic packaging; or

(iii) Constructing the battery with terminals that are recessed or otherwise protected so that the terminals will not be subjected to damage if the package is dropped.

(b) For transportation by aircraft:

(1) The packaging for wet batteries must incorporate an acid- or alkali-proof liner, or include a supplementary packaging with sufficient strength and adequately sealed to prevent leakage of electrolyte fluid in the event of spillage; and

(2) Any battery-powered device, equipment or vehicle must be packaged for transport in a manner to prevent unintentional activation or must have an independent means of preventing unintentional activation (e.g. , packaging restricts access to activation switch, switch caps or locks, recessed switches, trigger locks, temperature sensitive circuit breakers, etc.).

(c) The following specification packagings are authorized for batteries packed without other materials provided all requirements of paragraph (a) of this section, and for transportation by aircraft, paragraph (b) of this section are met:

(1) Wooden box: 4C1, 4C2, 4D, or 4F.

(2) Fiberboard box: 4G.

(3) Plywood drum: 1D.

(4) Fiber drum: 1G.

(5) Plastic drum: 1H2.

(6) Plastic jerrican: 3H2.

(7) Plastic box: 4H2.

(d) The following non-specification packagings are authorized for batteries packed without other materials provided all requirements of paragraph (a) of this section, and for transportation by aircraft, paragraph (b) of this section are met:

(1) Electric storage batteries are firmly secured to skids or pallets capable of withstanding the shocks normally incident to transportation are authorized for transportation by rail, highway, or vessel. The height of the completed unit must not exceed 1 1/2 times the width of the skid or pallet. The unit must be capable of withstanding, without damage, a superimposed weight equal to two times the weight of the unit or, if the weight of the unit exceeds 907 kg (2,000 pounds), a superimposed weight of 1814 kg (4,000 pounds). Battery terminals must not be relied upon to support any part of the superimposed weight and must not short out if a conductive material is placed in direct contact with them.

(2) Electric storage batteries weighing 225 kg (500 pounds) or more, consisting of carriers' equipment, may be shipped by rail when mounted on suitable skids. Such shipments may not be offered in interchange service.

(3) One to three batteries not over 11.3 kg (25 pounds) each, packed in strong outer boxes. The maximum authorized gross weight is 34 kg (75 pounds).

(4) Not more than four batteries not over 7 kg (15 pounds) each, packed in strong outer fiberboard or wooden boxes. The maximum authorized gross weight is 30 kg (65 pounds).

(5) Not more than five batteries not over 4.5 kg (10 pounds) each, packed in strong outer fiberboard or wooden boxes. The maximum authorized gross weight is 30 kg (65 pounds).

(6) Single batteries not exceeding 34 kg (75 pounds) each, packed in 5-sided slip covers or in completely closed fiberboard boxes. Slip covers and boxes must be of solid or double-faced corrugated fiberboard of at least 91 kg (200 pounds) Mullen test strength. The slip cover or fiberboard box must fit snugly and provide inside top clearance of at least 1.3 cm (0.5 inch) above battery terminals and filler caps with reinforcement in place. Assembled for shipment, the bottom edges of the slipcover must come to within 2.5 cm (1 inch) of the bottom of the battery.

The completed package (battery and box or slip cover) must be capable of withstanding a top-to-bottom compression test of at least 225 kg (500 pounds) without damage to battery terminal caps, cell covers or filler caps.

(7) Single batteries exceeding 34 kg (75 pounds) each may be packed in completely closed fiberboard boxes. Boxes must be of double-wall corrugated fiberboard of at least 181 kg (400 pounds) test, or solid fiberboard testing at least 181 kg (400 pounds); a box may have hand holes in its ends provided that the hand holes will not materially weaken the box. Sides and ends of the box must have cushioning between the battery and walls of the box; combined thickness of cushioning material and walls of the box must not be less than 1.3 cm (0.5 inch); and cushioning must be excelsior pads, corrugated fiberboard, or other suitable cushioning material. The bottom of the battery must be protected by a minimum of one excelsior pad or by a double-wall corrugated fiberboard pad. The top of the battery must be protected by a wood frame, corrugated trays or scored sheets of corrugated fiberboard having minimum test of 91 kg (200 pounds), or other equally effective cushioning material. Top protection must bear evenly on connectors and/or edges of the battery cover to facilitate stacking of batteries. No more than one battery may be placed in one box. The maximum authorized gross weight is 91 kg (200 pounds).

(e) When transported by highway or rail, electric storage batteries containing electrolyte or corrosive battery fluid are not subject to any other requirements of this subchapter, if all of the following are met:

(1) No other hazardous materials may be transported in the same vehicle;

(2) The batteries must be loaded or braced so as to prevent damage and short circuits in transit;

(3) Any other material loaded in the same vehicle must be blocked, braced, or otherwise secured to prevent contact with or damage to the batteries; and

(4) The transport vehicle may not carry material shipped by any person other than the shipper of the batteries.

(f) Batteries can be considered as non-spillable provided they are capable of withstanding the following two tests, without leakage of battery fluid from the battery:

(1) *Vibration test*. The battery must be rigidly clamped to the platform of a vibration machine, and a simple harmonic motion having an amplitude of 0.8 mm (0.03 inches) with a 1.6 mm (0.063 inches) maximum total excursion must be applied. The frequency must be varied at the rate of 1 Hz/min between the limits of 10 Hz to 55 Hz. The entire range of frequencies and return must be traversed in 95 ± 5 minutes for each mounting position (direction of vibrator) of the battery.

The battery must be tested in three mutually perpendicular positions (to include testing with fill openings and vents, if any, in an inverted position) for equal time periods.

(2) *Pressure differential test* . Following the vibration test, the battery must be stored for six hours at $24\text{ }^{\circ}\text{C} \pm 4\text{ }^{\circ}\text{C}$ ($75\text{ }^{\circ}\text{F} \pm 7\text{ }^{\circ}\text{F}$) while subjected to a pressure differential of at least 88 kPa (13 psig). The battery must be tested in three mutually perpendicular positions (to include testing with fill openings and vents, if any, in an inverted position) for at least six hours in each position.

(g) Electrolyte, acid or alkaline corrosive battery fluid, packed with batteries wet or dry, must be packed in one of the following specification packagings:

(1) In 4C1, 4C2, 4D, or 4F wooden boxes with inner receptacles of glass, not over 4.0 L (1 gallon) each with not over 8.0 L (2 gallons) total in each outside container. Inside containers must be well-cushioned and separated from batteries by a strong solid wooden partition. The completed package must conform to Packing Group III requirements.

(2) Electrolyte, acid, or alkaline corrosive battery fluid included with electric storage batteries and filling kits may be packed in strong rigid outer packagings when shipments are made by, for, or to the Departments of the Army, Navy, or Air Force of the United States. Packagings must conform to military specifications. The electrolyte, acid, or alkaline corrosive battery fluid must be packed in polyethylene bottles of not over 1.0 L (0.3 gallon) capacity each. Not more than 24 bottles, securely separated from electric storage batteries and kits, may be offered for transportation or transported in each package.

(3) In 4G fiberboard boxes with not more than 12 inside packagings of polyethylene or other material resistant to the lading, each not over 2.0 L (0.5 gallon) capacity each. Completed packages must conform to Packing Group III requirements. Inner packagings must be adequately separated from the storage battery. The maximum authorized gross weight is 29 kg (64 pounds). These packages are not authorized for transportation by aircraft.

(h) Dry batteries or battery charger devices may be packaged in 4G fiberboard boxes with inner receptacles containing battery fluid. Completed packagings must conform to Packing Group III requirements. Not more than 12 inner receptacles may be packed in one outer box. The maximum authorized gross weight is 34 kg (75 pounds).

(i) When approved by the Associate Administrator, electric storage batteries, containing electrolyte or corrosive battery fluid in a separate reservoir from which fluid is injected into the battery cells by a power device cartridge assembled with the battery, and which meet the criteria of paragraph (f) are not subject to any other requirements of this subchapter.

§ 173.164 Mercury (metallic and articles containing mercury)

(a) For transportation by aircraft, mercury must be packaged in packagings which meet the requirements of part 178 of this subchapter at the Packing Group I performance level, as follows:

(1) In inner packagings of earthenware, glass or plastic containing not more than 3.5 kg (7.7 pounds) of mercury, or inner packagings which are glass ampoules containing not more than 0.5 kg (1.1 pounds) of mercury, or iron or steel quicksilver flasks containing not more than 35 kg (77 pounds) of mercury. The inner packagings or flasks must be packed in steel drums (1A2), steel jerricans (3A2), wooden boxes (4C1), (4C2), plywood boxes (4D), reconstituted wood boxes (4F), fiberboard boxes (4G), plastic boxes (4H2), plywood drums (1D) or fiber drums (1G).

(2) [Reserved]

(3) When inner packagings of earthenware, glass or plastic are used, they must be packed in the outer packaging with sufficient cushioning material to prevent breakage.

(4) Either the inner packagings or the outer packagings must have inner linings or bags of strong leakproof and puncture-resistant material impervious to mercury, completely surrounding the contents, so that the escape of mercury will be prevented irrespective of the position of the package.

(b) Manufactured articles or apparatuses, each containing not more than 100 mg (0.0035 ounce) of mercury and packaged so that the quantity of mercury per package does not exceed 1 g (0.035 ounce) are not subject to the requirements of this subchapter.

(c) Manufactured articles or apparatuses containing mercury are excepted from the specification packaging requirements of this subchapter when packaged as follows:

(1) Manufactured articles or apparatuses of which metallic mercury is a component part, such as manometers, pumps, thermometers, switches, etc. (for electron tubes, mercury vapor tubes and similar tubes, see paragraph (c)(3) of this section), must be in strong outer packagings, having sealed inner liners or bags of strong leakproof and puncture-resistant material impervious to mercury, which will prevent the escape of mercury from the package irrespective of its position. Mercury switches and relays are excepted from these packaging requirements, if they are totally enclosed, leakproof and in sealed metal or plastic units.

(2) Thermometers, switches and relays, each containing a total quantity of not more than 15 g (0.53 ounces) of mercury, are excepted from the requirements of this subchapter if installed as an integral part of a machine or apparatus and so fitted that shock of impact damage, leading to leakage of mercury, is unlikely to occur under conditions normally incident to transport.

(3) Electron tubes, mercury vapor tubes and similar tubes must be packaged as follows:

(i) Tubes which are packed in strong outer packagings with all seams and joints sealed with self-adhesive, pressure-sensitive tape which will prevent the escape of mercury from the package, are authorized up to a total net quantity of 450 g (15.9 ounces) of mercury per package;

(ii) Tubes with more than 450 g (15.9 ounces) of mercury are authorized only when packed in strong outer packagings, having sealed inner liners or bags of strong leakproof and puncture-resistant material impervious to mercury which will prevent escape of mercury from the package irrespective of its position;

(iii) Tubes which do not contain more than 5 g (0.2 ounce) of mercury each and which are packed in the manufacturer's original packagings, are authorized up to a total net quantity of 30 g (1.1 ounces) of mercury per package;

(iv) Tubes which are completely jacketed in sealed leakproof metal cases are authorized in the manufacturer's original packagings.

(4) A person offering for transportation electron tubes, mercury vapor tubes, and similar tubes shall indicate the quantity of mercury therein on the shipping paper.

(5) Mercurial barometers conforming to paragraph (c)(1) of this section, which are loaded and unloaded from an aircraft under the supervision of, and accompanied in flight by, a National Weather Service official or similar United States agency official, are excepted from any other requirements of this subchapter.

(d) For transportation by other than aircraft, mercury must be packaged—

(1) In any packaging which meets the requirements of part 178 of this subchapter at the Packing Group III performance level; or

(2) In non-specification reusable metal packagings.

(e) Except for a hazardous substance or a hazardous waste or for transportation by aircraft or vessel, packages containing less than 0.45 kg (1.0 pound) net weight of mercury are not subject to the requirements of this subchapter.

§ 173.166 Air bag inflators, air bag modules and seat-belt pretensioners

(a) *Definitions.* An *air bag inflator* (consisting of a casing containing an igniter, a booster material, a gas generant and, in some cases, a pressure vessel (cylinder)) is a gas generator used to inflate an air bag in a supplemental restraint system in a motor vehicle. An *air bag module* is the air bag inflator plus an inflatable bag assembly. A *seat-belt pre-tensioner* contains similar hazardous materials and is used in the operation of a seat-belt restraining system in a motor vehicle.

(b) *Classification.* An air bag inflator, air bag module, or seat-belt pretensioner may be classed as Class 9 (UN3268) if:

(1) The manufacturer has submitted each design type air bag inflator, air bag module, or seat-belt pretensioner to a person approved by the Associate Administrator, in accordance with §173.56(b), for examination and testing. The submission must contain a detailed description of the inflator or pretensioner or, if more than a single inflator or pretensioner is involved, the maximum parameters of each particular inflator or pretensioner design type for which approval is sought and details on the complete package. The manufacturer must submit an application, including the test results and report recommending the shipping description and classification for each device or design type to the Associate Administrator, and must receive written notification from the Associate Administrator that the device has been approved for transportation and assigned an EX number; or,

(2) The manufacturer has submitted an application, including a classification issued by the competent authority of a foreign government to the Associate Administrator, and received written notification from the Associate Administrator that the device has been approved for transportation and assigned an EX number.

(c) *EX numbers.* When offered for transportation, the shipping paper must contain the EX number or product code for each approved inflator, module or pretensioner in association with the basic description required by §172.202(a) of this subchapter. Product codes must be traceable to the specific EX number assigned to the inflator, module or pretensioner by the Associate Administrator. The EX number or product code is not required to be marked on the outside package.

(d) *Exceptions.* (1) An air bag module or seat-belt pretensioner that has been approved by the Associate Administrator and is installed in a motor vehicle, aircraft, boat or other transport conveyance or its completed components, such as steering columns or door panels, is not subject to the requirements of this subchapter.

(2) An air bag module containing an inflator that has been previously approved for transportation is not required to be submitted for further examination or approval.

(3) An air bag module containing an inflator that has previously been approved as a Division 2.2 material is not required to be submitted for further examination to be reclassified as a Class 9 material.

(4) *Shipments for recycling.* When offered for domestic transportation by highway, rail freight, cargo vessel or cargo aircraft, a serviceable air bag module or seat-belt pretensioner removed from a motor vehicle that was manufactured as required for use in the United States may be offered for transportation and transported without compliance with the shipping paper requirement prescribed in paragraph (c) of this section. However, the word "Recycled" must be entered on the shipping paper immediately after the basic description prescribed in §172.202 of this subchapter. No more than one device is authorized in the packaging prescribed in paragraph (e)(1), (2) or (3) of this section. The device must be cushioned and secured within the package to prevent movement during transportation.

(e) *Packagings.* Rigid, outer packagings, meeting the general packaging requirements of part 173, and the packaging specification and performance requirements of part 178 of this subchapter at the Packing Group III performance level are authorized as follows. The packagings must be designed and constructed to prevent movement of the articles and inadvertent operation.

(1) 1A2, 1B2, 1G or 1H2 drums.

(2) 3A2 or 3H2 jerricans.

(3) 4C1, 4C2, 4D, 4F, 4G or 4H2 boxes.

(4) Reusable high strength plastic or metal containers or dedicated handling devices are authorized for shipment of air bag inflators, air bag modules, and seat-belt pretensioners from a manufacturing facility to the assembly facility, subject to the following conditions:

(i) The gross weight of the container or handling device may not exceed 1000 kg (2205 pounds). The container or handling device structure must provide adequate support to allow them to be stacked at least three high with no damage to the containers or devices.

(ii) If not completely enclosed by design, the container or handling device must be covered with plastic, fiberboard, or metal. The covering must be secured to the container by banding or other comparable methods.

(iii) Internal dunnage must be sufficient to prevent shifting of the devices within the container.

(5) Packagings specified in the approval document issued by the Associate Administrator in accordance with paragraph (e) of this section are also authorized.

(f) *Labeling.* Notwithstanding the provisions of §172.402 of this subchapter, each package or handling device must display a CLASS 9 label. Additional labeling is not required when the package contains no hazardous materials other than the devices.

§ 173.170 Black powder for small arms

Black powder for small arms that has been classed in Division 1.1 may be reclassified as a Division 4.1 material, for domestic transportation by motor vehicle, rail freight, and cargo vessel only, subject to the following conditions:

(a) The powder must be examined and approved for Division 1.1 and Division 4.1 classification in accordance with §§173.56 and 173.58;

(b) The total quantity of black powder in one motor vehicle, rail car, or freight container may not exceed 45.4 kg (100 pounds) net mass, and no more than four freight containers may be on board one cargo vessel;

(c) The black powder must be packed in inner metal or heavy wall conductive plastic receptacles not over 454 g (16 ounces) net capacity each, with no more than 25 cans in one outer UN 4G fiberboard box. The inner packagings must be arranged and protected so as to prevent simultaneous ignition of the contents. The complete package must be of the same type which has been examined as required in §173.56;

(d) Each completed package must be marked "BLACK POWDER FOR SMALL ARMS" and "NA 0027"; and

(e) Each package must bear the FLAMMABLE SOLID label.

§ 173.171 Smokeless powder for small arms

Smokeless powder for small arms which has been classed in Division 1.3 may be reclassified in Division 4.1, for transportation by motor vehicle, rail car, vessel, or cargo-only aircraft, subject to the following conditions:

(a) The powder must be examined and approved for a Division 1.3 and Division 4.1 classification in accordance with §§173.56 and 173.58 of this part.

(b) The total quantity of smokeless powder may not exceed 45.4 kg (100 pounds) net mass in:

(1) One rail car, motor vehicle, or cargo-only aircraft; or

(2) One freight container on a vessel, not to exceed four freight containers per vessel.

(c) Only combination packagings with inner packagings not exceeding 3.6 kg (8 pounds) net mass are authorized. Inner packagings must be arranged and protected so as to prevent simultaneous ignition of the contents. The complete package must be of the same type which has been examined as required in §173.56 of this part.

(d) Inside packages that have been examined and approved by the Associate Administrator may be packaged in UN 4G fiberboard boxes meeting the Packing Group I performance level, provided all inside containers are packed to prevent shifting and the net weight of smokeless powder in any one box does not exceed 7.3 kg (16 pounds).

§ 173.185 Lithium batteries and cells

(a) *Cells and batteries.* A lithium cell or battery, including a lithium polymer cell or battery and a lithium-ion cell or battery, must conform to all of the following requirements:

(1) Be of a type proven to meet the requirements of each test in the UN Manual of Tests and Criteria (IBR; see §171.7 of this subchapter). A cell or battery and equipment containing a cell or battery that was first transported prior to January 1, 2006 and is of a type proven to meet the criteria of Class 9 by testing in accordance with the tests in the UN Manual of Tests and Criteria, Third Revised Edition, 1999, need not be retested.

(2) Incorporate a safety venting device or otherwise be designed in a manner that will preclude a violent rupture under conditions normally incident to transportation.

(3) Be equipped with an effective means to prevent dangerous reverse current flow (e.g., diodes, fuses, etc.) if a battery contains cells or series of cells that are connected in parallel.

(4) Be packaged in combination packagings conforming to the requirements of part 178, subparts L and M, of this subchapter at the Packing Group II performance level. The lithium battery or cell must be packed in inner packagings

in such a manner as to prevent short circuits, including movement which could lead to short circuits. The inner packaging must be packed within one of the following outer packagings: metal boxes (4A or 4B); wooden boxes (4C1, 4C2, 4D, or 4F); fiberboard boxes (4G); solid plastic boxes (4H2); fiber drums (1G); metal drums (1A2 or 1B2); plywood drums (1D); plastic jerricans (3H2); or metal jerricans (3A2 or 3B2).

(5) Be equipped with an effective means of preventing external short circuits.

(6) Except as provided in paragraph (d) of this section, cells and batteries with a liquid cathode containing sulfur dioxide, sulfuryl chloride or thionyl chloride may not be offered for transportation or transported if any cell has been discharged to the extent that the open circuit voltage is less than two volts or is less than 2/3 of the voltage of the fully charged cell, whichever is less.

(b) Lithium cells or batteries packed with equipment. Lithium cells or batteries packed with equipment may be transported as Class 9 materials if the batteries and cells meet all the requirements of paragraph (a) of this section. The equipment and the packages of cells or batteries must be further packed in a strong outer packaging. The cells or batteries must be packed in such a manner as to prevent short circuits, including movement that could lead to short circuits.

(c) Lithium cells or batteries contained in equipment . Lithium cells or batteries contained in equipment may be transported as Class 9 materials if the cells and batteries meet all the requirements of paragraph (a) of this section, except paragraph (a)(4) of this section, and the equipment is packed in a strong outer packaging that is waterproof or is made waterproof through the use of a liner unless the equipment is made waterproof by nature of its construction. The equipment and cells or batteries must be secured within the outer packaging and be packed so as to prevent movement, short circuits, and accidental operation during transport.

(d) Cells and batteries, for disposal or recycling. A lithium cell or battery offered for transportation or transported by motor vehicle to a permitted storage facility, disposal site or for purposes of recycling is excepted from the specification packaging requirements of paragraph (a)(4) of this section and the requirements of paragraphs (a)(1) and (a)(6) of this section when protected against short circuits and packed in a strong outer packaging conforming to the requirements of §§173.24 and 173.24a.

(e) Shipments for testing (prototypes). A lithium cell or battery is excepted from the requirements of (a)(1) of this section when transported by motor vehicle for purposes of testing. The cell or battery must be individually packed in an inner packaging, surrounded by cushioning material that is non-combustible and nonconductive. The cell or battery must be transported as a Class 9 material.

(f) A lithium cell or battery that does not comply with the provisions of this subchapter may be transported only under conditions approved by the Associate Administrator.

(g) Batteries employing a strong, impact-resistant outer casing and exceeding a gross weight of 12 kg (26.5 lbs.), and assemblies of such batteries, may be packed in strong outer packagings, in protective enclosures (for example, in fully enclosed wooden slatted crates) or on pallets. Batteries must be secured to prevent inadvertent movement, and the terminals may not support the weight of other superimposed elements. Batteries packaged in this manner are not permitted for transportation by passenger aircraft, and may be transported by cargo aircraft only if approved by the Associate Administrator prior to transportation.

§ 173.186 Matches

(a) Matches must be of a type which will not ignite spontaneously or undergo marked decomposition when subjected for 8 consecutive hours to a temperature of 93 °C (200 °F).

(b) *Definitions.* (1) *Fusee matches* are matches the heads of which are prepared with a friction-sensitive igniter composition and a pyrotechnic composition which burns with little or no flame, but with intense heat.

(2) *Safety matches* are matches combined with or attached to the box, book or card that can be ignited by friction only on a prepared surface.

(3) *Strike anywhere* matches are matches that can be ignited by friction on a solid surface.

(4) *Wax "Vesta" matches* are matches that can be ignited by friction either on a prepared surface or on a solid surface.

(c) Safety matches and wax "Vesta" matches must be tightly packed in securely closed inner packagings to prevent accidental ignition under conditions normally incident to transportation, and further packed in outer fiberboard, wooden, or other equivalent-type packagings. These matches in outer packagings not exceeding 23 kg (50 pounds) gross weight are not subject to any other requirement (except marking) of this subchapter. These matches may be packed in the same outer packaging with materials not subject to this subchapter.

(d) Strike-anywhere matches may not be packed in the same outer packaging with any material other than safety matches or wax "Vesta" matches, which must be packed in separate inner packagings.

(e) Packagings. Strike-anywhere matches must be tightly packed in securely closed chipboard, fiberboard, wooden, or metal inner packagings to prevent accidental ignition under conditions normally incident to transportation. Each inner packaging may contain no more than 700 strike-anywhere matches and must be packed in outer steel drums (1A2), aluminum drums (1B2), steel jerricans (3A2), wooden (4C1, 4C2), plywood (4D), reconstituted wood (4F) or fiberboard (4G) boxes, plywood (1D) or fiber (1G) drums. Gross weight of fiberboard boxes (4G) must not exceed 30 kg (66 pounds). Gross weight of other outer packagings must not exceed 45 kg (100 pounds).

§ 173.217 Carbon dioxide, solid (dry ice)

(a) Carbon dioxide, solid (dry ice), when offered for transportation or transported by aircraft or water, must be packed in packagings designed and constructed to permit the release of carbon dioxide gas to prevent a buildup of pressure that could rupture the packagings. Packagings must conform to the general packaging requirements of subpart B of this part but need not conform to the requirements of part 178 of this subchapter.

(b) For transportation by vessel:

(1) Each transport vehicle and freight container containing solid carbon dioxide must be conspicuously marked on two sides "WARNING CO₂SOLID (DRY ICE)."

(2) Other packagings containing solid carbon dioxide must be marked "CARBON DIOXIDE, SOLID—DO NOT STOW BELOW DECKS."

(c) For transportation by aircraft:

(1) In addition to the applicable marking requirements in subpart D of part 172, the net mass of the carbon dioxide, solid (dry ice) must be marked on the outside of the package. This provision also applies to unit load devices (ULDs) when the ULD contains dry ice and is considered the packaging.

(2) The shipper must make arrangements with the operator for each shipment.

(3) The quantity limits per package shown in Columns (9A) and (9B) of the Hazardous Materials Table in §172.101 are not applicable to dry ice being used as a refrigerant for other than hazardous materials loaded in a unit load device or other type of pallet. In such a case, the unit load device or other type of pallet must allow the venting of the carbon dioxide gas to prevent a dangerous build up of pressure, and be identified to the operator.

(4) Dry ice is excepted from the shipping paper requirements of subpart C of part 172 of this subchapter provided alternative written documentation is supplied containing the following information: proper shipping name (Dry ice or Carbon

dioxide, solid), class 9, UN number 1845, the number of packages, and the net quantity of dry ice in each package. The information must be included with the description of the materials.

(5) Carbon dioxide, solid (dry ice), in quantities not exceeding 2.5 kg (5.5 pounds) per package and used as a refrigerant for the contents of the package is excepted from all other requirements of this subchapter if the requirements of paragraph (a) of this section are complied with and the package is marked "Carbon dioxide, solid" or "Dry ice", is marked with the name of the contents being cooled, and is marked with the net weight of the dry ice or an indication that the net weight is 2.5 kg (5.5 pounds) or less.

(d) Carbon dioxide, solid (dry ice), when used to refrigerate materials being shipped for diagnostic or treatment purposes (e.g. , frozen medical specimens), is excepted from the shipping paper and certification requirements of this subchapter if the requirements of paragraphs (a) and (c)(2) of this section are met and the package is marked "Carbon dioxide, solid" or "Dry ice" and is marked with an indication that the material being refrigerated is being transported for diagnostic or treatment purposes.

§ 173.306 Limited quantities of compressed gases

(a) Limited quantities of compressed gases for which exceptions are permitted as noted by reference to this section in §172.101 of this subchapter are excepted from labeling, except when offered for transportation or transported by air, and, unless required as a condition of the exception, specification packaging requirements of this subchapter when packaged in accordance with the following paragraphs. For transportation by aircraft, the package must also comply with the applicable requirements of §173.27 of this subchapter and only hazardous materials authorized aboard passenger-carrying aircraft may be transported as a limited quantity. In addition, shipments are not subject to subpart F (Placarding) of part 172 of this subchapter, to part 174 of this subchapter except §174.24, and to part 177 of this subchapter except § 177.817. Each package may not exceed 30 kg (66 pounds) gross weight.

(1) When in containers of not more than 4 fluid ounces capacity (7.22 cubic inches or less) except cigarette lighters. Special exceptions for shipment of certain compressed gases in the ORM-D class are provided in paragraph (i) of this section.

(2) When in metal containers filled with a material that is not classed as a hazardous material to not more than 90 percent of capacity at 70 °F. and then charged with nonflammable, nonliquefied gas. Each container must be tested to three times the pressure at 70 °F. and, when refilled, be retested to three times

the pressure of the gas at 70 °F. Also, one of the following conditions must be met:

(i) Container is not over 1 quart capacity and charged to not more than 170 psig at 70 °F. and must be packed in a strong outside packaging, or

(ii) Container is not over 30 gallons capacity and charged to not more than 75 psig at 70 °F.

(3) When in a metal container for the sole purpose of expelling a nonpoisonous (other than a Division 6.1 Packing Group III material) liquid, paste or powder, provided all of the following conditions are met. Special exceptions for shipment of aerosols in the ORM-D class are provided in paragraph (i) of this section.

(i) Capacity must not exceed 1 L(61.0 cubic inches).

(ii) Pressure in the container must not exceed 180 psig at 130 °F. If the pressure exceeds 140 psig at 130 °F., but does not exceed 160 psig at 130 °F., a specification DOT 2P (§178.33 of this subchapter) inside metal container must be used; if the pressure exceeds 160 psig at 130 °F., a specification DOT 2Q (§178.33a of this subchapter) inside metal container must be used. In any event, the metal container must be capable of withstanding without bursting a pressure of one and one-half times the equilibrium pressure of the content at 130 °F.

(iii) Liquid content of the material and gas must not completely fill the container at 130 °F.

(iv) The container must be packed in strong outside packagings.

(v) Each container must be subjected to a test performed in a hot water bath; the temperature of the bath and the duration of the test must be such that the internal pressure reaches that which would be reached at 55 °C (131 °F) (50 °C (122 °F) if the liquid phase does not exceed 95% of the capacity of the container at 50 °C (122 °F)). If the contents are sensitive to heat, the temperature of the bath must be set at between 20 °C (68 °F) and 30 °C (86 °F) but, in addition, one container in 2,000 must be tested at the higher temperature. No leakage or permanent deformation of a container may occur.

(vi) Each outside packaging must be marked "INSIDE CONTAINERS COMPLY WITH PRESCRIBED REGULATIONS."

(4) Gas samples must be transported under the following conditions:

(i) A gas sample may only be transported as non-pressurized gas when its pressure corresponding to ambient atmospheric pressure in the container is not more than 105 kPa absolute (15.22 psia).

(ii) Non-pressurized gases, toxic (or toxic and flammable) must be packed in hermetically sealed glass or metal inner packagings of not more than one L (0.3 gallons) overpacked in a strong outer packaging.

(iii) Non-pressurized gases, flammable must be packed in hermetically sealed glass or metal inner packagings of not more than 5 L (1.3 gallons) and overpacked in a strong outer packaging.

(5) For limited quantities of Division 2.2 gases with no subsidiary risk, when in a plastic container for the sole purpose of expelling a liquid, paste or powder, provided all of the following conditions are met. Special exceptions for shipment of aerosols in the ORM-D class are provided in paragraph (i) of this section.

(i) Capacity must not exceed 1 L (61.0 cubic inches).

(ii) Pressure in the container must not exceed 160 psig at 130 °F. If the pressure in the container is less than 140 psig at 130 °F, a non-DOT specification container may be used. If the pressure in the container exceeds 140 psig at 130 °F but does not exceed 160 psig at 130 °F, the container must conform to specification DOT 2S. All non-DOT specification and specification DOT 2S containers must be capable of withstanding, without bursting, a pressure of one and one-half times the equilibrium pressure of the contents at 130 °F.

(iii) Liquid content of the material and gas must not completely fill the container at 130 °F.

(iv) The container must be packed in strong outside packagings.

(v) Each container must be subjected to a test performed in a hot water bath; the temperature of the bath and the duration of the test must be such that the internal pressure reaches that which would be reached at 55 °C (131 °F) or 50 °C (122 °F) if the liquid phase does not exceed 95% of the capacity of the container at 50 °C (122 °F). If the contents are sensitive to heat, the temperature of the bath must be set at between 20 °C (68 °F) and 30 °C (86 °F) but, in addition, one container in 2,000 must be tested at the higher temperature. No leakage or permanent deformation of a container may occur.

(vi) Each outside packaging must be marked "INSIDE CONTAINERS COMPLY WITH PRESCRIBED REGULATIONS."

(b) *Exceptions for foodstuffs, soap, biologicals, electronic tubes, and audible fire alarm systems* . Limited quantities of compressed gases (except Division 2.3 gases) for which exceptions are provided as indicated by reference to this section in §172.101 of this subchapter, when accordance with one of the following paragraphs, are excepted from labeling, except when offered for transportation or transported by aircraft, and the specification packaging

requirements of this subchapter. For transportation by aircraft, the package must comply with the applicable requirements of §173.27 of this subchapter; the net quantity per package may not exceed the quantity specified in column (9A) of the Hazardous Materials Table in §172.101 of this subchapter; and only hazardous materials authorized aboard passenger-carrying aircraft may be transported as a limited quantity. In addition, shipments are not subject to subpart F (Placarding) of part 172 of this subchapter, to part 174 of this subchapter, except §174.24, and to part 177 of this subchapter, except §177.817. Special exceptions for shipment of certain compressed gases in the ORM-D class are provided in paragraph (i) of this section.

(1) Foodstuffs or soaps in a nonrefillable metal or plastic container not exceeding 1 L (61.0 cubic inches), with soluble or emulsified compressed gas, provided the pressure in the container does not exceed 140 psig at 130 °F. Plastic containers must only contain Division 2.2 non-flammable soluble or emulsified compressed gas. The metal or plastic container must be capable of withstanding, without bursting, a pressure of one and one-half times the equilibrium pressure of the contents at 130 °F.

(i) Containers must be packed in strong outside packagings.

(ii) Liquid content of the material and the gas must not completely fill the container at 130 °F.

(iii) Each outside packaging must be marked "INSIDE CONTAINERS COMPLY WITH PRESCRIBED REGULATIONS."

(2) Cream in refillable metal or plastic containers with soluble or emulsified compressed gas. Plastic containers must only contain Division 2.2 non-flammable soluble or emulsified compressed gas. Containers must be of such design that they will hold pressure without permanent deformation up to 375 psig and must be equipped with a device designed so as to release pressure without bursting of the container or dangerous projection of its parts at higher pressures. This exception applies to shipments offered for transportation by refrigerated motor vehicles only.

(3) Nonrefillable metal or plastic containers charged with a Division 6.1 Packing Group III or nonflammable solution containing biological products or a medical preparation which could be deteriorated by heat, and compressed gas or gases. Plastic containers must only contain 2.2 non-flammable soluble or emulsified compressed gas. The capacity of each container may not exceed 35 cubic inches (19.3 fluid ounces). The pressure in the container may not exceed 140 psig at 130 °F, and the liquid content of the product and gas must not completely fill the containers at 130 °F. One completed container out of each lot of 500 or less, filled for shipment, must be heated, until the pressure in the container is equivalent to equilibrium pressure of the contents at 130 °F. There must be no

evidence of leakage, distortion, or other defect. The container must be packed in strong outside packagings.

(4) Electronic tubes, each having a volume of not more than 30 cubic inches and charged with gas to a pressure of not more than 35 psig and packed in strong outside packagings.

(5) Audible fire alarm systems powered by a compressed gas contained in an inside metal container when shipped under the following conditions:

(i) Each inside container must have contents which are not flammable, poisonous, or corrosive as defined under this part,

(ii) Each inside container may not have a capacity exceeding 35 cubic inches (19.3 fluid ounces),

(iii) Each inside container may not have a pressure exceeding 70 psig at 70 °F. and the liquid portion of the gas may not completely fill the inside container at 130 °F., and

(iv) Each nonrefillable inside container must be designed and fabricated with a burst pressure of not less than four times its charged pressure at 130 °F. Each refillable inside container must be designed and fabricated with a burst pressure of not less than five times its charged pressure at 130 °F.

(c)–(d) [Reserved]

(e) *Refrigerating machines.* (1) New (unused) refrigerating machines or components thereof are excepted from the specification packaging requirements of this part if they meet the following conditions. In addition, shipments are not subject to subpart F of part 172 of this subchapter, to part 174 of this subchapter except §174.24 and to part 177 of this subchapter except §177.817.

(i) Each pressure vessel may not contain more than 5,000 pounds of Group A1 refrigerant as classified in ANSI/ASHRAE Standard 15 or not more than 50 pounds of refrigerant other than Group A1.

(ii) Machines or components having two or more charged vessels may not contain an aggregate of more than 2,000 pounds of Group I refrigerant or more than 100 pounds of refrigerant other than Group I.

(iii) Each pressure vessel must be equipped with a safety device meeting the requirements of ANSI/ASHRAE 15 (IBR, see §171.7 of this subchapter).

(iv) Each pressure vessel must be equipped with a shut-off valve at each opening except openings used for safety devices and with no other connection. These valves must be closed prior to and during transportation.

(v) Pressure vessels must be manufactured, inspected and tested in accordance with ANSI/ASHRAE 15, or when over 6 inches internal diameter, in accordance with Section VIII of the ASME Code (IBR, see §171.7 of this subchapter).

(vi) All parts subject to refrigerant pressure during shipment must be tested in accordance with ANSI/ASHRAE 15.

(vii) The liquid portion of the refrigerant, if any, may not completely fill any pressure vessel at 130 °F.

(viii) The amount of refrigerant, if liquefied, may not exceed the filling density prescribed in §173.304.

(f) *Accumulators (Articles, pressurized pneumatic or hydraulic containing non-flammable gas)*. The following applies to accumulators, which are hydraulic accumulators containing nonliquefied, nonflammable gas, and nonflammable liquids or pneumatic accumulators containing nonliquefied, nonflammable gas, fabricated from materials which will not fragment upon rupture.

(1) Accumulators installed in motor vehicles, construction equipment, and assembled machinery and designed and fabricated with a burst pressure of not less than five times their charged pressure at 70 °F., when shipped, are not subject to the requirements of this subchapter.

(2) Accumulators charged with limited quantities of compressed gas to not more than 200 p.s.i.g. at 70 °F. are excepted from labeling (except when offered for transportation by air) and the specification packaging requirements of this subchapter when shipped under the following conditions. In addition, shipments are not subject to subpart F of part 172 of this subchapter, to part 174 of this subchapter except §174.24 and to part 177 of this subchapter except §177.817.

(i) Each accumulator must be shipped as an inside packaging,

(ii) Each accumulator may not have a gas space exceeding 2,500 cubic inches under stored pressure, and

(iii) Each accumulator must be tested, without evidence of failure or damage, to at least three times its charged pressure of 70 °F., but not less than 120 p.s.i. before initial shipment and before each refilling and reshipment.

(3) Accumulators with a charging pressure exceeding 200 p.s.i.g. at 70 °F. are excepted from labeling (except when offered for transportation by air) and the

specification packaging requirements of this subchapter when shipped under the following conditions:

(i) Each accumulator must be in compliance with the requirements stated in paragraph (f)(2), (i), (ii), and (iii) of this section, and

(ii) Each accumulator must be designed and fabricated with a burst pressure of not less than five times its charged pressure at 70 °F. when shipped.

(4) Accumulators intended to function as shock absorbers, struts, gas springs, pneumatic springs or other impact or energy-absorbing devices are not subject to the requirements of this subchapter provided each:

(i) Has a gas space capacity not exceeding 1.6 L and a charge pressure not exceeding 280 bar, where the product of the capacity expressed in liters and charge pressure expressed in bars does not exceed 80 (for example, 0.5 L gas space and 160 bar charge pressure);

(ii) Has a minimum burst pressure of 4 times the charge pressure at 20°C for products not exceeding 0.5 L gas space capacity and 5 times the charge pressure for products greater than 0.5 L gas space capacity;

(iii) Design type has been subjected to a fire test demonstrating that the article relieves its pressure by means of a fire degradable seal or other pressure relief device, such that the article will not fragment and that the article does not rocket; and

(iv) Accumulators must be manufactured under a written quality assurance program which monitors parameters controlling burst strength, burst mode and performance in a fire situation as specified in paragraphs (f)(4)(i) through (f)(4)(iii) of this section. A copy of the quality assurance program must be maintained at each facility at which the accumulators are manufactured.

(5) Accumulators not conforming to the provisions of paragraphs (f)(1) through (f)(4) of this section, may only be transported subject to the approval of the Associate Administrator.

(g) *Water pump system tank.* Water pump system tanks charged with compressed air or limited quantities of nitrogen to not over 40 psig for single-trip shipment to installation sites are excepted from labeling (transportation by air not authorized) and the specification packaging requirements of this subchapter when shipped under the following conditions. In addition, shipments are not subject to subpart F of this subchapter, to part 174 of this subchapter except §174.24 and part 177 except §177.817.

(1) The tank must be of steel, welded with heads concave to pressure, having a rated water capacity not exceeding 120 gallons and with outside diameter not exceeding 24 inches. Safety relief devices not required.

(2) The tank must be pneumatically tested to 100 psig. Test pressure must be permanently marked on the tank.

(3) The stress at prescribed pressure must not exceed 20,000 psi using formula:

$$S = Pd / 2t$$

where:

S = wall stress in psi:

P = prescribed pressure for the tank of at least 3 times charged pressure at 70 °F or 100 psig, whichever is greater;

d = inside diameter in inches;

t = minimum wall thickness, in inches.

(4) The burst pressure must be at least 6 times the charge pressure at 70 °F.

(5) Each tank must be overpacked in a strong outer packaging in accordance with §173.301(h).

(h) *Lighter refills.* (1) Lighter refills (see §171.8 of this subchapter) must not contain an ignition element but must contain a release device. Lighter refills offered for transportation under this section may not exceed 4 fluid ounces capacity (7.22 cubic inches) or contain more than 65 grams of a Division 2.1 fuel. For transportation by highway or rail, lighter refills must be tightly packed and secured against movement in strong outer packagings. For transportation by aircraft or vessel, lighter refills must be tightly packed and secured against movement in any rigid specification outer packaging authorized in Subpart L of Part 178 of this subchapter at the Packing Group II performance level.

(2) *Exceptions.* For highway transportation, when no more than 1,500 lighter refills covered by this paragraph are transported in one motor vehicle, the requirements of subparts C through H of part 172, and Part 177 of this subchapter do not apply. Lighter refills covered under this paragraph must be packaged in rigid, strong outer packagings meeting the general packaging requirements of subpart B of this part. Outer packagings must be plainly and durably marked, on two opposing sides or ends, with the word "LIGHTER REFILLS" and the number of devices contained therein in letters measuring at least 20 mm (0.79 in) in height. No person may offer for transportation or

transport the lighter refills or prepare the lighter refills for shipment unless that person has been specifically informed of the requirements of this section.

(i) *Consumer commodities.* A limited quantity which conforms to the provisions of paragraph (a)(1), (a)(3), (a)(5), or (b) of this section and is a “consumer commodity” as defined in §171.8 of this subchapter, may be renamed “consumer commodity” and reclassified as ORM–D material. Each package may not exceed 30 kg (66 pounds) gross weight. In addition to the exceptions provided by paragraphs (a) and (b) of this section—

(1) Outside packagings are not required to be marked “INSIDE CONTAINERS COMPLY WITH PRESCRIBED REGULATIONS”;

(2) Shipments of ORM–D materials are not subject to the shipping paper requirements of subpart C of part 172 of this subchapter, unless the material meets the definition of a hazardous substance, a hazardous waste, or a marine pollutant or unless offered for transportation or transported by aircraft; and

(3) Shipments of ORM–D materials are eligible for the exceptions provided in §173.156.

(j) *Aerosols and receptacles small, containing gas with a capacity of less than 50 mL.* Aerosols, as defined in §171.8 of this subchapter, and receptacles small, containing gas, with a capacity not exceeding 50 mL (1.7 oz.) and with a pressure not exceeding 970 kPa (141 psig) at 55 °C (131 °F), containing no hazardous materials other than a Division 2.2 gas, are not subject to the requirements of this subchapter. The pressure limit may be increased to 2,000 kPa (290 psig) at 55 °C (131 °F) provided the aerosols are transported in outer packages that conform to the packaging requirements of Subpart B of this part. This paragraph (j) does not apply to a self-defense spray (e.g. , pepper spray).

§ 173.308 Cigarette lighter or other similar device charged with fuel.

(a) *General requirements.* No person may offer for transportation or transport a lighter (see §171.8 of this subchapter) containing a Division 2.1 (flammable gas) material except under the following conditions:

(1) The lighter must contain a fuel reservoir not exceeding 4 fluid ounces capacity (7.22 cubic inches), and must contain not more than 10 grams (0.35 ounce) of flammable gas.

(2) The maximum filling density may not exceed 85 percent of the volumetric capacity of each fluid reservoir at 15 °C (59 °F).

(3) Each lighter design, including closures, must be capable of withstanding, without leakage or rupture, an internal pressure of at least two times the pressure of the flammable gas at 55 °C (131 °F).

(4) Each appropriate lighter design must be examined and successfully tested by a person or agency (authorized testing agency) who is authorized by the Associate Administrator to perform such examination and testing under the provisions of subpart E of part 107 of this chapter and who—

(i) Has the equipment necessary to perform the testing required to the level of accuracy required;

(ii) Is able to demonstrate, upon request, the knowledge of the testing procedures and requirements of the HMR relative to lighters;

(iii) Does not manufacture or market lighters, is not financially dependent or owned in whole or in part, by any entity that manufactures or markets lighters;

(iv) Is a resident of the United States; and

(v) Performs all examination and testing in accordance with the requirements of paragraph (b)(3) and (4) of this section.

(5) The Associate Administrator will assign an identification code to each person who is authorized to examine and test lighters. This identification code must be incorporated into a unique test report identifier for each successfully tested lighter design.

(b) Examination and testing of lighter design types —(1) Lighter design type definition. A new lighter design is one that has never been examined and tested or one that differs from a previous design in any manner that may affect the escape (leakage) of gas. Lighter characteristics that may affect the escape of gas include changes in materials of construction, ignition mechanism, burner valve design, wall thickness, sealing materials, and type of fuel (e.g., vapor pressure differences).

(2) Lighter samples submitted for examination and testing. Samples of a new lighter design are excepted from the requirements of (a)(4) and (d) of this section and may be offered for transportation and transported under the following conditions:

(i) The samples must be transported only to an authorized testing agency;

(ii) No more than 12 lighters may be packaged in a single outer packaging;

(iii) Inner packagings must conform to the requirements of paragraph (c)(1) of this section. For transportation by aircraft, intermediate or outer packagings must meet the pressure differential requirements of §173.27(c) of this part;

(iv) The outer packaging must conform to the requirements of Subpart M of Part 178 of this subchapter at the Packing Group I performance level and to the requirements of §173.24 of this subpart;

(v) The word “sample” must appear on the shipping paper as part of the proper shipping name or in association with the basic description; and

(vi) In addition to other required markings and labels, the package must be marked “SAMPLE FOR EXAMINATION AND TESTING.”

(vii) All other applicable requirements of this subchapter must be met.

(3) *Examination and testing of sample lighters by an authorized testing agency.* Each sample lighter must be examined for conformance with paragraph (a) of this section by a person authorized by the Associate Administrator. In addition, lighters must be subjected to the following leakage test:

(i) A minimum of six lighters must be examined and tested at one time. Store the lighters in a desiccator for 24 hours. After drying, weigh each lighter on an analytical balance capable of accurately measuring to within 1/10 of a milligram (0.0001 grams).

(ii) After weighing, place the lighters together in an explosion-proof, controlled-temperature laboratory oven capable of maintaining 38 ± 1 °C (100 ± 2 °F) for 96 continuous hours (4 days). At the end of 96 hours, remove the lighters from the oven and place them in the same desiccator and allow the lighters to cool to ambient temperature.

(iii) After cooling, weigh each lighter and determine the net weight differences for each lighter tested (subtract the mass after oven exposure from the original mass before oven exposure).

(iv) Weight losses must be assessed to determine the quantity of gas that leaked from the lighters and from the weight change as a result of absorbed moisture. If the net weight has increased, the test facility must run the required test using six empty lighters in parallel with the six filled lighters. The parallel tests are conducted to determine the weight of moisture absorbed in the plastic in order to determine the weight loss of the lighters from gas leakage.

(v) If the net weight loss for any one of the six lighters exceeds 20 milligrams (0.020 grams), the design must be rejected.

(vi) Lighters manufactured to a rejected lighter design may not be offered for transportation or transported in commerce unless approved in writing by the Associate Administrator.

(4) *Recordkeeping requirements.* (i) Following the examination of each new lighter design, the person or agency that conducted the examination and test must prepare a test report and make that test report available to the manufacturer. At a minimum, the test report must contain the following information:

(A) Name and address of test facility;

(B) Name and address of applicant;

(C) A test report identifier, that is, the authorized person or agency identifier code immediately followed by an alpha/numeric identifier of four or more characters assigned to the specific lighter design by the authorized person or agency (e.g., "LAA****," where, "LAA" is the identification code assigned to the authorized person or agency by the Associate Administrator and "****" is replaced with the unique test report identifier assigned to the specific lighter design by the authorized person or agency);

(D) Manufacturer of the lighter. For a foreign manufacturer, the U.S. agent or importer must be identified;

(E) Description of the lighter design type (e.g., model, dimensions, ignition mechanism, reservoir capacity, lot/batch number) in sufficient detail to ensure conformance with paragraph (b)(4)(iii) of this section; and

(F) A certification by the authorized testing agency that the lighter design conforms to paragraph (a) of this section and passes or does not pass the required leakage test in paragraph (b) of this section.

(ii) For as long as any lighter design is in production and for at least three years thereafter, a copy of each lighter's test report must be maintained by the authorized testing agency that performed the examination and testing and the manufacturer of the design. For a foreign manufacturer, each test report must be maintained in accordance with this paragraph by the foreign manufacturer's U.S. agent or importer.

(iii) Test reports must be traceable to a specific lighter design and must be made available to a representative of the Department upon request.

(5) *Transitional provisions.* Until January 1, 2012, approval numbers issued by the Associate Administrator prior to January 1, 2007 may continue to be marked on packages and annotated on shipping papers, where applicable. After that

time, previously issued approvals (*i.e.*, T-***) will no longer be valid and each lighter design currently in production must be re-examined and tested under the provisions of this section.

(c) *Packaging requirements* —(1) *Inner containment*. Lighters must be placed in an inner packaging that is designed to prevent movement of the lighters and inadvertent ignition or leakage. The ignition device and gas control lever of each lighter must be designed, or securely sealed, taped, or otherwise fastened or packaged to protect against accidental functioning or leakage of the contents during transport. If lighters are packed vertically in a plastic tray, a plastic, fiberboard or paperboard partition must be used to prevent friction between the ignition device and the inner packaging.

(2) *Outer packaging*. Lighters and their inner packagings must be tightly packed and secured against movement in any rigid specification outer packaging authorized in Subpart L of Part 178 of this subchapter at the Packing Group II performance level.

(d) *Shipping paper and marking requirements*. (1) In addition to the requirements of subpart C of part 172, shipping papers must be annotated with the lighter design test report identifier (see paragraph (b)(4)(i)(C) of this section) traceable to the test report assigned to the lighters or, if applicable, the previously issued approval number (*i.e.*, T***), in association with the basic description.

(2) In addition to the requirements of subpart D of part 172, a lighter design test report identifier (see paragraph (b)(4)(i)(C) of this section) or, if applicable, the previously issued approval number (*i.e.*, T***), must be marked on a package containing lighters.

(3) For transportation by vessel in a closed transport vehicle or a closed freight container, the following warning must be affixed to the access doors:

**WARNING—MAY CONTAIN EXPLOSIVE MIXTURES WITH AIR—KEEP
IGNITION SOURCES AWAY WHEN OPENING**

The warning must be on a contrasting background and must be in letters measuring at least 12.7 mm (0.5 inch) in height.

(e) *Exceptions* —(1) *Common or contract carriage*. For highway transportation by common or contract carrier, when no more than 1,500 lighters covered by this section are transported in one motor vehicle, the requirements of subparts C through H of part 172, and Part 177 of this subchapter do not apply. Lighters transported in accordance with this paragraph are also excepted from the specification packaging, shipping paper, and marking requirements specified in §§173.308(c) and (d). Inner packagings must conform to paragraph (c)(1) of this section. Lighters must be further packaged in rigid, strong outer packagings

meeting the general packaging requirements of subpart B of part 173. Outer packagings must be plainly and durably marked, on two opposing sides or ends, with the word "LIGHTERS" and the number of devices contained therein in letters measuring at least 20 mm (0.79 in) in height. In addition, the package must include the test report identifier for each lighter design as specified in paragraph (b)(4)(i)(C) of this section or, if applicable, the previously issued approval number (*i.e.*, T***). The test report identifier or approval number must be durable, legible, in English, and located in, attached to, or marked directly on the package. No person may offer for transportation or transport the lighters or prepare the lighters for shipment unless that person has been specifically informed of the requirements of this section.

(2) *Private carriage.* For highway transportation by a private carrier, lighters that have been examined and successfully tested in accordance with this section are not subject to any other requirements of this subchapter under the following conditions:

(i) No person may offer for transportation or transport the lighters or prepare the lighters for shipment unless that person has been specifically informed of the requirements of this section;

(ii) Lighters must be placed in an inner packaging that is designed to prevent accidental activation of the ignition device or valve, release of gas, and movement of the lighters (*e.g.*, tray, blister pack, etc.);

(iii) Inner packagings must be placed in a securely closed rigid outer packaging that limits movement of the inner packagings and protects them from damage;

(iv) The outer package may contain not more than 300 lighters;

(v) A transport vehicle may carry not more than 1,500 lighters at any one time;

(vi) The lighters may not be placed in an outer packaging with other hazardous materials; and

(vii) Outer packagings must be plainly and durably marked with the words "LIGHTERS, excepted quantity."

§ 173.320 Cryogenic liquids; exceptions

(a) Atmospheric gases and helium, cryogenic liquids, in Dewar flasks, insulated cylinders, insulated portable tanks, insulated cargo tanks, and insulated tank cars, designed and constructed so that the pressure in such packagings will not exceed 25.3 psig under ambient temperature conditions during transportation are not subject to the requirements of this subchapter when transported by motor

vehicle or railcar except as specified in paragraphs (a)(1), (a)(2), and (a)(3) of this section.

(1) Sections 171.15 and 171.16 of this subchapter pertaining to the reporting of incidents, not including a release that is the result of venting through a pressure control valve, or the neck of the Dewar flask.

(2) Subparts A, B, C, D, G and H of part 172, (§§174.24 for rail and 177.817 for highway) and in addition, part 172 in its entirety for oxygen.

(3) Subparts A and B of part 173, and §§174.1 and 177.800, 177.804, and 177.823 of this subchapter.

(b) The requirements of this subchapter do not apply to atmospheric gases and helium:

(1) During loading and unloading operations (pressure rises may exceed 25.3 psig); or

(2) When used in operation of a process system; such as a refrigeration system (pressure may exceed 25.3 psig).

(c) For transportation aboard aircraft, see the ICAO Technical Instructions (IBR, see §171.7 of this subchapter), Packing Instruction 202 and the packaging specifications in part 6, chapter 5.

§ 173.421 Excepted packages for limited quantities of Class 7 (radioactive) materials

(a) A Class 7 (radioactive) material with an activity per package which does not exceed the limited quantity package limits specified in Table 4 in §173.425, and its packaging, are excepted from requirements in this subchapter for specification packaging, labeling, marking (except for the UN identification number marking requirement described in §173.422(a)), and if not a hazardous substance or hazardous waste, shipping papers, and the requirements of this subpart if:

(1) Each package meets the general design requirements of §173.410;

(2) The radiation level at any point on the external surface of the package does not exceed 0.005 mSv/hour (0.5 mrem/ hour);

(3) The nonfixed (removable) radioactive surface contamination on the external surface of the package does not exceed the limits specified in §173.443(a);

(4) The outside of the inner packaging or, if there is no inner packaging, the outside of the packaging itself bears the marking "Radioactive";

(5) The package does not contain fissile material unless excepted by §173.453.

(6) The material is otherwise prepared for shipment as specified in accordance with §173.422.

(b) A limited quantity of Class 7 (radioactive) material that is a hazardous substance or a hazardous waste, is not subject to the provisions in §172.203(d) or §172.204(c)(4) of this subchapter.

§ 173.422 Additional requirements for excepted packages containing Class 7 (radioactive) materials

An excepted package of Class 7 (radioactive) material that is prepared for shipment under the provisions of §173.421, §173.424, §173.426, or §173.428 is not subject to any additional requirements of this subchapter, except for the following:

(a) The outside of each package must be marked with the four digit UN identification number for the material preceded by the letters UN, as shown in column (4) of the Hazardous Materials Table in §172.101 of this subchapter;

(b) Sections 171.15 and 171.16 of this subchapter, pertaining to the reporting of incidents;

(c) Sections 174.750, 175.700(b), and 176.710 of this subchapter (depending on the mode of transportation), pertaining to the reporting of decontamination;

(d) The training requirements of subpart H of part 172 of this subchapter; and

(e) For materials that meet the definition of a hazardous substance or a hazardous waste, the shipping paper requirements of subpart C of part 172 of this subchapter.

§ 173.423 Requirements for multiple hazard limited quantity Class 7 (radioactive) materials

(a) Except as provided in §173.4, when a limited quantity radioactive material meets the definition of another hazard class or division, it must be—

(1) Classed for the additional hazard;

(2) Packaged to conform with the requirements specified in §173.421(a)(1) through (a)(5) or §173.424(a) through (g), as appropriate; and

(3) Offered for transportation in accordance with the requirements applicable to the hazard for which it is classed.

(b) A limited quantity Class 7 (radioactive) material which is classed other than Class 7 in accordance with this subchapter is excepted from the requirements of §§173.422(a), 172.203(d), and 172.204(c)(4) of this subchapter if the entry “Limited quantity radioactive material” appears on the shipping paper in association with the basic description.

§ 173.424 Excepted packages for radioactive instruments and articles

A radioactive instrument or article and its packaging are excepted from requirements in this subchapter for specification packaging, labeling, marking (except for the UN identification number marking requirement described in §173.422(a)), and if not a hazardous substance or hazardous waste, shipping papers and the requirements of this subpart if:

- (a) Each package meets the general design requirements of §173.410;
- (b) The activity of the instrument or article does not exceed the relevant limit listed in Table 4 in §173.425;
- (c) The total activity per package does not exceed the relevant limit listed in Table 4 in §173.425;
- (d) The radiation level at 10 cm (4 in) from any point on the external surface of any unpackaged instrument or article does not exceed 0.1 mSv/hour (10 mrem/hour);
- (e) The active material is completely enclosed by non-active components (a device performing the sole function of containing radioactive material shall not be considered to be an instrument or manufactured article);
- (f) The radiation level at any point on the external surface of a package bearing the article or instrument does not exceed 0.005 mSv/hour (0.5 mrem/hour), or, for exclusive use domestic shipments, 0.02 mSv/hour (2 mrem/hour);
- (g) The nonfixed (removable) radioactive surface contamination on the external surface of the package does not exceed the limits specified in §173.443(a);
- (h) Except as provided in §173.426, the package does not contain more than 15 g of uranium-235; and
- (i) The package is otherwise prepared for shipment as specified in §173.422.

§ 173.453 Fissile materials—exceptions

Fissile materials meeting the requirements of at least one of the paragraphs (a) through (f) of this section are excepted from the requirements of this subpart for

fissile materials, including the requirements of §§173.457 and 173.459, but are subject to all other requirements of this subpart, except as noted.

(a) An individual package containing 2 grams or less of fissile material.

(b) An individual or bulk packaging containing 15 grams or less of fissile material provided the package has at least 200 grams of solid nonfissile material for every gram of fissile material. Lead, beryllium, graphite, and hydrogenous material enriched in deuterium may be present in the package but must not be included in determining the required mass for solid nonfissile material.

(c) Low concentrations of solid fissile material commingled with solid nonfissile material, provide that:

(1) There is at least 2000 grams of nonfissile material for every gram of fissile material, and

(2) There is no more than 180 grams of fissile material distributed within 360 kg of contiguous nonfissile material. Lead, beryllium, graphite, and hydrogenous material enriched in deuterium may be present in the package but must not be included in determining the required mass of solid nonfissile material.

(d) Uranium enriched in uranium-235 to a maximum of 1 percent by weight, and with total plutonium and uranium-233 content of up to 1 percent of the mass of uranium-235, provided that the mass of any beryllium, graphite, and hydrogenous material enriched in deuterium constitute less than 5 percent of the uranium mass.

(e) Liquid solutions of uranyl nitrate enriched in uranium-235 to a maximum of 2 percent by mass, with a total plutonium and uranium-233 content not exceeding 0.002 percent of the mass of uranium, and with a minimum nitrogen to uranium atomic ratio (N/U) of 2. The material must be contained in at least a DOT Type A package.

(f) Packages containing, individually, a total plutonium mass of not more than 1000 grams, of which not more than 20 percent by mass may consist of plutonium-239, plutonium-241, or any combination of these radionuclides.

Identification Number-Cross Reference Index

The identification number cross reference index to proper shipping names in 172.101 is provided for information purposes only. Words in italics are not part of the shipping name, but may be used in addition to the proper shipping name.

Identification Number Cross Reference	
Identification Number	Proper Shipping Name
NA0027	Black powder for small arms
NA0124	Jet perforating guns, charged oil well, with detonator
NA0276	Model rocket motor
NA0323	Model rocket motor
NA0331	Ammonium nitrate-fuel oil mixture
NA0337	Toy Caps
NA0494	Jet perforating guns, charged oil well, with detonator
NA1057	Lighters
NA1203	Gasohol
NA1270	Petroleum oil
NA1325	Fusee
NA1350	Sulfur
NA1361	Charcoal
NA1365	Cotton
NA1556	Methyldichloroarsine
NA1613	Hydrocyanic acid, aqueous solutions
NA1693	Tear gas devices
NA1759	Ferrous chloride, solid
NA1760	Chemical kit
NA1760	Compounds, cleaning liquid
NA1760	Compounds, tree killing, liquid or Compounds, weed killing, liquid
NA1760	Ferrous chloride, solution
NA1911	Diborane mixtures
NA1954	Refrigerant gases, n.o.s. or Dispersant gases, n.o.s.
NA1955	Organic phosphate, mixed with compressed gas or Organic phosphate compound, mixed with compressed gas or Organic phosphorus compound, mixed with compressed gas
NA1961	Ethane-Propane mixture, refrigerated liquid
NA1967	Parathion and compressed gas mixture
NA1987	Denatured alcohol
NA1993	Combustible liquid, n.o.s.
NA1993	Compounds, cleaning liquid
NA1993	Compounds, tree killing, liquid or Compounds, weed killing, liquid
NA1993	Diesel fuel
NA1993	Fuel oil
NA1999	Asphalt

NA2212	Asbestos
NA2448	Sulfur, molten
NA2742	sec-Butyl chloroformate
NA2742	Isobutyl chloroformate
NA2810	Compounds, tree killing, liquid or Compounds, weed killing, liquid
NA2845	Ethyl phosphonous dichloride, anhydrous
NA2845	Methyl phosphonous dichloride
NA2927	Ethyl phosphonothioic dichloride, anhydrous
NA2927	Ethyl phosphorodichloridate
NA3077	Hazardous waste, solid, n.o.s.
NA3077	Other regulated substances, solid, n.o.s.
NA3082	Hazardous waste, liquid, n.o.s.
NA3082	Other regulated substances, liquid, n.o.s.
NA3178	Smokeless powder for small arms
NA3334	Self-defense spray, non-pressurized
NA3356	Oxygen generator, chemical, spent
NA9035	Gas identification set
NA9191	Chlorine dioxide, hydrate, frozen
NA9202	Carbon monoxide, refrigerated liquid
NA9206	Methyl phosphonic dichloride
NA9260	Aluminum, molten
NA9263	Chloropivaloyl chloride
NA9264	3,5-Dichloro-2,4,6-trifluoropyridine
NA9269	Trimethoxysilane
UN0004	Ammonium picrate
UN0005	Cartridges for weapons
UN0006	Cartridges for weapons
UN0007	Cartridges for weapons
UN0009	Ammunition, incendiary
UN0010	Ammunition, incendiary
UN0012	Cartridges for weapons, inert projectile or Cartridges, small arms
UN0014	Cartridges for weapons, blank or Cartridges, small arms blank
UN0015	Ammunition, smoke
UN0016	Ammunition, smoke
UN0018	Ammunition, tear-producing
UN0019	Ammunition, tear-producing
UN0020	Ammunition, toxic
UN0021	Ammunition, toxic
UN0027	Black powder or Gunpowder
UN0028	Black powder, compressed or Gunpowder, compressed or Black powder, in pellets or Gunpowder, in pellets
UN0029	Detonators, non-electric
UN0030	Detonators, electric
UN0033	Bombs
UN0034	Bombs
UN0035	Bombs
UN0037	Bombs, photo-flash
UN0038	Bombs, photo-flash
UN0039	Bombs, photo-flash
UN0042	Boosters
UN0043	Bursters
UN0044	Primers, cap type
UN0048	Charges, demolition
UN0049	Cartridges, flash
UN0050	Cartridges, flash
UN0054	Cartridges, signal

UN0055	Cases, cartridge, empty with primer
UN0056	Charges, depth
UN0059	Charges, shaped
UN0060	Charges, supplementary explosive
UN0065	Cord, detonating
UN0066	Cord, igniter
UN0070	Cutters, cable, explosive
UN0072	Cyclotrimethylenetrinitramine, wetted or Cyclonite, wetted or Hexogen, wetted or RDX, wetted
UN0073	Detonators for ammunition
UN0074	Diazodinitrophenol, wetted
UN0075	Diethyleneglycol dinitrate, desensitized
UN0076	Dinitrophenol
UN0077	Dinitrophenolates
UN0078	Dinitroresorcinol
UN0079	Hexanitrodiphenylamine or Dipicrylamine or Hexyl
UN0081	Explosive, blasting, type A
UN0082	Explosive, blasting, type B
UN0083	Explosive, blasting, type C
UN0084	Explosive, blasting, type D
UN0092	Flares, surface
UN0093	Flares, aerial
UN0094	Flash powder
UN0099	Fracturing devices, explosive
UN0101	Fuse, non-detonating
UN0102	Cord detonating or Fuse detonating
UN0103	Fuse, igniter
UN0104	Cord, detonating, mild effect or Fuse, detonating, mild effect
UN0105	Fuse, safety
UN0106	Fuzes, detonating
UN0107	Fuzes, detonating
UN0110	Grenades, practice
UN0113	Guanyl nitrosaminoguanilydene hydrazine, wetted
UN0114	Guanyl nitrosaminoguanilydene hydrazine, wetted or Tetrazene, wetted
UN0118	Hexolite, or Hexotol
UN0121	Igniters
UN0124	Jet perforating guns, charged
UN0129	Lead azide, wetted
UN0130	Lead styphnate, wetted or Lead trinitroresorcinolate, wetted
UN0131	Lighters, fuse
UN0132	Deflagrating metal salts of aromatic nitroderivatives, n.o.s
UN0133	Mannitol hexanitrate, wetted or Nitromannite, wetted
UN0135	Mercury fulminate, wetted
UN0136	Mines
UN0137	Mines
UN0138	Mines
UN0143	Nitroglycerin, desensitized
UN0144	Nitroglycerin, solution in alcohol
UN0146	Nitrostarch
UN0147	Nitro urea
UN0150	Pentaerythrite tetranitrate, wetted or Pentaerythritol tetranitrate, wetted, or PETN, wetted or Pentaerythrite tetranitrate, or Pentaerythritol tetranitrate or PETN, desensitized
UN0151	Pentolite

UN0153	Trinitroaniline or Picramide
UN0154	Trinitrophenol or Picric acid
UN0155	Trinitrochlorobenzene or Picryl chloride
UN0159	Powder cake, wetted or Powder paste, wetted
UN0160	Powder, smokeless
UN0161	Powder, smokeless
UN0167	Projectiles
UN0168	Projectiles
UN0169	Projectiles
UN0171	Ammunition, illuminating
UN0173	Release devices, explosive
UN0174	Rivets, explosive
UN0180	Rockets
UN0181	Rockets
UN0182	Rockets
UN0183	Rockets
UN0186	Rocket motors
UN0190	Samples, explosive
UN0191	Signal devices, hand
UN0192	Signals, railway track, explosive
UN0193	Signals, railway track, explosive
UN0194	Signals, distress
UN0195	Signals, distress
UN0196	Signals, smoke
UN0197	Signals, smoke
UN0204	Sounding devices, explosive
UN0207	Tetranitroaniline
UN0208	Trinitrophenylmethylnitramine or Tetryl
UN0209	Trinitrotoluene or TNT
UN0212	Tracers for ammunition
UN0213	Trinitroanisole
UN0214	Trinitrobenzene
UN0215	Trinitrobenzoic acid
UN0216	Trinitro-meta-cresol
UN0217	Trinitronaphthalene
UN0218	Trinitrophenetole
UN0219	Trinitroresorcinol or Styphnic acid
UN0220	Urea nitrate
UN0221	Warheads, torpedo
UN0222	Ammonium nitrate
UN0224	Barium azide
UN0225	Boosters with detonator
UN0226	Cyclotetramethylenetetranitramine, wetted or HMX, wetted or Octogen, wetted
UN0234	Sodium dinitro-o-cresolate
UN0235	Sodium picramate
UN0236	Zirconium picramate
UN0237	Charges, shaped, flexible, linear
UN0238	Rockets, line-throwing
UN0240	Rockets, line-throwing
UN0241	Explosive, blasting, type E
UN0242	Charges, propelling, for cannon
UN0243	Ammunition, incendiary, white phosphorus
UN0244	Ammunition, incendiary, white phosphorus
UN0245	Ammunition smoke, white phosphorus
UN0246	Ammunition smoke, white phosphorus
UN0247	Ammunition, incendiary
UN0248	Contrivances, water-activated
UN0249	Contrivances, water-activated

UN0250	Rocket motors with hypergolic liquids
UN0254	Ammunition, illuminating
UN0255	Detonators, electric
UN0257	Fuzes, detonating
UN0266	Octolite or Octol
UN0267	Detonators, non-electric
UN0268	Boosters with detonator
UN0271	Charges, propelling
UN0272	Charges, propelling
UN0275	Cartridges, power device
UN0276	Cartridges, power device
UN0277	Cartridges, oil well
UN0278	Cartridges, oil well
UN0279	Charges, propelling, for cannon
UN0280	Rocket motors
UN0281	Rocket motors
UN0282	Nitroguanidine or Picrite
UN0283	Boosters
UN0284	Grenades
UN0285	Grenades
UN0286	Warheads, rocket
UN0287	Warheads, rocket
UN0288	Charges, shaped, flexible, linear
UN0289	Cord, detonating
UN0290	Cord detonating or Fuse detonating
UN0291	Bombs
UN0292	Grenades
UN0293	Grenades
UN0294	Mines
UN0295	Rockets
UN0296	Sounding devices, explosive
UN0297	Ammunition, illuminating
UN0299	Bombs, photo-flash
UN0300	Ammunition, incendiary
UN0301	Ammunition, tear-producing
UN0303	Ammunition, smoke
UN0305	Flash powder
UN0306	Tracers for ammunition
UN0312	Cartridges, signal
UN0313	Signals, smoke
UN0314	Igniters
UN0315	Igniters
UN0316	Fuzes, igniting
UN0317	Fuzes, igniting
UN0318	Grenades, practice
UN0319	Primers, tubular
UN0320	Primers, tubular
UN0321	Cartridges for weapons
UN0322	Rocket motors with hypergolic liquids
UN0323	Cartridges, power device
UN0324	Projectiles
UN0325	Igniters
UN0326	Cartridges for weapons, blank
UN0327	Cartridges for weapons, blank or Cartridges, small arms blank
UN0328	Cartridges for weapons, inert projectile
UN0329	Torpedoes
UN0330	Torpedoes
UN0331	Explosive, blasting, type B or Agent blasting, Type B
UN0332	Explosive, blasting, type E or Agent blasting, Type E
UN0333	Fireworks

UN0334	Fireworks
UN0335	Fireworks
UN0336	Fireworks
UN0337	Fireworks
UN0338	Cartridges for weapons, blank or Cartridges, small arms blank
UN0339	Cartridges for weapons, inert projectile or Cartridges, small arms
UN0340	Nitrocellulose
UN0341	Nitrocellulose
UN0342	Nitrocellulose, wetted
UN0343	Nitrocellulose, plasticized
UN0344	Projectiles
UN0345	Projectiles
UN0346	Projectiles
UN0347	Projectiles
UN0348	Cartridges for weapons
UN0349	Articles, explosive, n.o.s.
UN0350	Articles, explosive, n.o.s.
UN0351	Articles, explosive, n.o.s.
UN0352	Articles, explosive, n.o.s.
UN0353	Articles, explosive, n.o.s.
UN0354	Articles, explosive, n.o.s.
UN0355	Articles, explosive, n.o.s.
UN0356	Articles, explosive, n.o.s.
UN0357	Substances, explosive, n.o.s.
UN0358	Substances, explosive, n.o.s.
UN0359	Substances, explosive, n.o.s.
UN0360	Detonator assemblies, non-electric
UN0361	Detonator assemblies, non-electric
UN0362	Ammunition, practice
UN0363	Ammunition, proof
UN0364	Detonators for ammunition
UN0365	Detonators for ammunition
UN0366	Detonators for ammunition
UN0367	Fuzes, detonating
UN0368	Fuzes, igniting
UN0369	Warheads, rocket
UN0370	Warheads, rocket
UN0371	Warheads, rocket
UN0372	Grenades, practice
UN0373	Signal devices, hand
UN0374	Sounding devices, explosive
UN0375	Sounding devices, explosive
UN0376	Primers, tubular
UN0377	Primers, cap type
UN0378	Primers, cap type
UN0379	Cases, cartridges, empty with primer
UN0380	Articles, pyrophoric
UN0381	Cartridges, power device
UN0382	Components, explosive train, n.o.s.
UN0383	Components, explosive train, n.o.s.
UN0384	Components, explosive train, n.o.s.
UN0385	5-Nitrobenzotriazol
UN0386	Trinitrobenzenesulfonic acid
UN0387	Trinitrofluorenone
UN0388	Trinitrotoluene and Trinitrobenzene mixtures or TNT and trinitrobenzene mixtures or TNT and hexanitrostilbene mixtures or Trinitrotoluene and hexanitrostilbene mixtures

UN0389	Trinitrotoluene mixtures containing Trinitrobenzene and Hexanitrostilbene or TNT mixtures containing trinitrobenzene and hexanitrostilbene
UN0390	Tritonal
UN0391	RDX and HMX mixtures, wetted or RDX and HMX mixtures, desensitized
UN0392	Hexanitrostilbene
UN0393	Hexotonal
UN0394	Trinitroresorcinol, wetted or Styphnic acid
UN0395	Rocket motors, liquid fueled
UN0396	Rocket motors, liquid fueled
UN0397	Rockets, liquid fueled
UN0398	Rockets, liquid fueled
UN0399	Bombs with flammable liquid
UN0400	Bombs with flammable liquid
UN0401	Dipicryl sulfide
UN0402	Ammonium perchlorate
UN0403	Flares, aerial
UN0404	Flares, aerial
UN0405	Cartridges, signal
UN0406	Dinitrosobenzene
UN0407	Tetrazol-1-acetic acid
UN0408	Fuzes, detonating
UN0409	Fuzes, detonating
UN0410	Fuzes, detonating
UN0411	Pentaerythrite tetranitrate or Pentaerythritol tetranitrate or PETN
UN0412	Cartridges for weapons
UN0413	Cartridges for weapons, blank
UN0414	Charges, propelling, for cannon
UN0415	Charges, propelling
UN0417	Cartridges for weapons, inert projectile or Cartridges, small arms
UN0418	Flares, surface
UN0419	Flares, surface
UN0420	Flares, aerial
UN0421	Flares, aerial
UN0424	Projectiles
UN0425	Projectiles
UN0426	Projectiles
UN0427	Projectiles
UN0428	Articles, pyrotechnic
UN0429	Articles, pyrotechnic
UN0430	Articles, pyrotechnic
UN0431	Articles, pyrotechnic
UN0432	Articles, pyrotechnic
UN0433	Powder cake, wetted or Powder paste, wetted
UN0434	Projectiles
UN0435	Projectiles
UN0436	Rockets
UN0437	Rockets
UN0438	Rockets
UN0439	Charges, shaped
UN0440	Charges, shaped
UN0441	Charges, shaped
UN0442	Charges, explosive, commercial
UN0443	Charges, explosive, commercial
UN0444	Charges, explosive, commercial
UN0445	Charges, explosive, commercial
UN0446	Cases, combustible, empty, without primer

UN0447	Cases, combustible, empty, without primer
UN0448	5-Mercaptotetrazol-1-acetic acid
UN0449	Torpedoes, liquid fueled
UN0450	Torpedoes, liquid fueled
UN0451	Torpedoes
UN0452	Grenades, practice
UN0453	Rockets, line-throwing
UN0454	Igniters
UN0455	Detonators, non-electric
UN0456	Detonators, electric
UN0457	Charges, bursting, plastics bonded
UN0458	Charges, bursting, plastics bonded
UN0459	Charges, bursting, plastics bonded
UN0460	Charges, bursting, plastics bonded
UN0461	Components, explosive train, n.o.s.
UN0462	Articles, explosive, n.o.s.
UN0463	Articles, explosive, n.o.s.
UN0464	Articles, explosive, n.o.s.
UN0465	Articles, explosive, n.o.s.
UN0466	Articles, explosive, n.o.s.
UN0467	Articles, explosive, n.o.s.
UN0468	Articles, explosive, n.o.s.
UN0469	Articles, explosive, n.o.s.
UN0470	Articles, explosive, n.o.s.
UN0471	Articles, explosive, n.o.s.
UN0472	Articles, explosive, n.o.s.
UN0473	Substances, explosive, n.o.s.
UN0474	Substances, explosive, n.o.s.
UN0475	Substances, explosive, n.o.s.
UN0476	Substances, explosive, n.o.s.
UN0477	Substances, explosive, n.o.s.
UN0478	Substances, explosive, n.o.s.
UN0479	Substances, explosive, n.o.s.
UN0480	Substances, explosive, n.o.s.
UN0481	Substances, explosive, n.o.s.
UN0482	Substances, explosive, very insensitive, n.o.s. or Substances, EVI n.o.s.
UN0483	Cyclotrimethylenetrinitramine, desensitized or Cyclonite, desensitized or Hexogen, desensitized or RDX, desensitized
UN0484	Cyclotetramethylenetetranitramine, desensitized or Octogen, desensitized or HMX, desensitized
UN0485	Substances, explosive, n.o.s.
UN0486	Articles, explosive, extremely insensitive or Articles, EEI
UN0487	Signals, smoke
UN0488	Ammunition, practice
UN0489	Dinitroglycoluril or Dingu
UN0490	Nitrotriazolone or NTO
UN0491	Charges, propelling
UN0492	Signals, railway track, explosive
UN0493	Signals, railway track, explosive
UN0494	Jet perforating guns, charged
UN0495	Propellant, liquid
UN0496	Octonal
UN0497	Propellant, liquid
UN0498	Propellant, solid
UN0499	Propellant, solid
UN0500	Detonator assemblies, non-electric
UN0501	Propellant, solid
UN0502	Rockets

UN0503	Air bag inflators or Air bag modules or Seat-belt pretensioner
UN0504	1H-Tetrazole
UN0505	Signals, distress
UN0506	Signals, distress
UN0507	Signals, smoke
UN0508	1-Hydroxybenzotriazole, anhydrous
UN0509	Powder, smokeless
UN1001	Acetylene, dissolved
UN1002	Air, compressed
UN1003	Air, refrigerated liquid
UN1003	Air, refrigerated liquid
UN1005	Ammonia, anhydrous
UN1006	Argon, compressed
UN1008	Boron trifluoride, compressed
UN1009	Bromotrifluoromethane or Refrigerant gas, R 13B1
UN1010	Butadienes, stabilized
UN1011	Butane
UN1012	Butylene
UN1013	Carbon dioxide
UN1016	Carbon monoxide, compressed
UN1017	Chlorine
UN1018	Chlorodifluoromethane or Refrigerant gas R 22
UN1020	Chloropentafluoroethane or Refrigerant gas R 115
UN1021	1-Chloro-1,2,2,2-tetrafluoroethane or Refrigerant gas R 124
UN1022	Chlorotrifluoromethane or Refrigerant gas R 13
UN1023	Coal gas, compressed
UN1026	Cyanogen
UN1027	Cyclopropane
UN1028	Dichlorodifluoromethane or Refrigerant gas R 12
UN1029	Dichlorofluoromethane or Refrigerant gas R21
UN1030	1,1-Difluoroethane or Refrigerant gas R 152a
UN1032	Dimethylamine, anhydrous
UN1033	Dimethyl ether
UN1035	Ethane
UN1036	Ethylamine
UN1037	Ethyl chloride
UN1038	Ethylene, refrigerated liquid
UN1039	Ethyl methyl ether
UN1040	Ethylene oxide or Ethylene oxide with nitrogen
UN1041	Ethylene oxide and carbon dioxide mixtures
UN1043	Fertilizer ammoniating solution
UN1044	Fire extinguishers
UN1045	Fluorine, compressed
UN1046	Helium, compressed
UN1048	Hydrogen bromide, anhydrous
UN1049	Hydrogen, compressed
UN1050	Hydrogen chloride, anhydrous
UN1051	Hydrogen cyanide, stabilized
UN1052	Hydrogen fluoride, anhydrous
UN1053	Hydrogen sulfide
UN1055	Isobutylene
UN1056	Krypton, compressed
UN1057	Lighters or Lighter refills
UN1058	Liquefied gases

UN1060	Methyl acetylene and propadiene mixtures, stabilized
UN1061	Methylamine, anhydrous
UN1062	Methyl bromide
UN1063	Methyl chloride or Refrigerant gas R 40
UN1064	Methyl mercaptan
UN1065	Neon, compressed
UN1066	Nitrogen, compressed
UN1067	Dinitrogen tetroxide
UN1069	Nitrosyl chloride
UN1070	Nitrous oxide
UN1071	Oil gas, compressed
UN1072	Oxygen, compressed
UN1073	Oxygen, refrigerated liquid
UN1075	Petroleum gases, liquefied or Liquefied petroleum gas
UN1076	Phosgene
UN1077	Propylene
UN1078	Refrigerant gases, n.o.s.
UN1079	Sulfur dioxide
UN1080	Sulfur hexafluoride
UN1081	Tetrafluoroethylene, stabilized
UN1082	Trifluorochloroethylene, stabilized
UN1083	Trimethylamine, anhydrous
UN1085	Vinyl bromide, stabilized
UN1086	Vinyl chloride, stabilized
UN1087	Vinyl methyl ether, stabilized
UN1088	Acetal
UN1089	Acetaldehyde
UN1090	Acetone
UN1091	Acetone oils
UN1092	Acrolein, stabilized
UN1093	Acrylonitrile, stabilized
UN1098	Allyl alcohol
UN1099	Allyl bromide
UN1100	Allyl chloride
UN1104	Amyl acetates
UN1105	Pentanols
UN1106	Amylamines
UN1107	Amyl chlorides
UN1108	1-Pentene
UN1109	Amyl formates
UN1110	n-Amyl methyl ketone
UN1111	Amyl mercaptans
UN1112	Amyl nitrate
UN1113	Amyl nitrites
UN1114	Benzene
UN1120	Butanols
UN1123	Butyl acetates
UN1125	n-Butylamine
UN1126	1-Bromobutane
UN1127	Chlorobutanes
UN1128	n-Butyl formate
UN1129	Butyraldehyde
UN1130	Camphor oil
UN1131	Carbon disulfide
UN1133	Adhesives
UN1134	Chlorobenzene
UN1135	Ethylene chlorohydrin
UN1136	Coal tar distillates, flammable
UN1139	Coating solution
UN1143	Crotonaldehyde, stabilized
UN1144	Crotonylene
UN1145	Cyclohexane
UN1146	Cyclopentane

UN1147	Decahydronaphthalene
UN1148	Diacetone alcohol
UN1149	Dibutyl ethers
UN1150	1,2-Dichloroethylene
UN1152	Dichloropentanes
UN1153	Ethylene glycol diethyl ether
UN1154	Diethylamine
UN1155	Diethyl ether or Ethyl ether
UN1156	Diethyl ketone
UN1157	Diisobutyl ketone
UN1158	Diisopropylamine
UN1159	Diisopropyl ether
UN1160	Dimethylamine solution
UN1161	Dimethyl carbonate
UN1162	Dimethyldichlorosilane
UN1163	Dimethylhydrazine, unsymmetrical
UN1164	Dimethyl sulfide
UN1165	Dioxane
UN1166	Dioxolane
UN1167	Divinyl ether, stabilized
UN1169	Extracts, aromatic, liquid
UN1170	Ethanol or Ethyl alcohol or Ethanol solutions or Ethyl alcohol solutions
UN1171	Ethylene glycol monoethyl ether
UN1172	Ethylene glycol monoethyl ether acetate
UN1173	Ethyl acetate
UN1175	Ethylbenzene
UN1176	Ethyl borate
UN1177	2-Ethylbutyl acetate
UN1178	2-Ethylbutyraldehyde
UN1179	Ethyl butyl ether
UN1180	Ethyl butyrate
UN1181	Ethyl chloroacetate
UN1182	Ethyl chloroformate
UN1183	Ethyldichlorosilane
UN1184	Ethylene dichloride
UN1185	Ethyleneimine, stabilized
UN1188	Ethylene glycol monomethyl ether
UN1189	Ethylene glycol monomethyl ether acetate
UN1190	Ethyl formate
UN1191	Octyl aldehydes
UN1192	Ethyl lactate
UN1193	Ethyl methyl ketone or Methyl ethyl ketone
UN1194	Ethyl nitrite solutions
UN1196	Ethyltrichlorosilane
UN1197	Extracts, flavoring, liquid
UN1198	Formaldehyde, solutions, flammable
UN1199	Furaldehydes
UN1201	Fusel oil
UN1202	Diesel fuel
UN1202	Gas oil
UN1202	Heating oil, light
UN1203	Gasoline
UN1204	Nitroglycerin solution in alcohol
UN1206	Heptanes
UN1207	Hexaldehyde
UN1208	Hexanes
UN1210	Printing ink or Printing ink related material
UN1212	Isobutanol or Isobutyl alcohol
UN1213	Isobutyl acetate
UN1214	Isobutylamine
UN1216	Isooctenes

UN1218	Isoprene, stabilized
UN1219	Isopropanol or Isopropyl alcohol
UN1220	Isopropyl acetate
UN1221	Isopropylamine
UN1222	Isopropyl nitrate
UN1223	Kerosene
UN1224	Ketones, liquid, n.o.s.
UN1228	Mercaptans, liquid, flammable, toxic, n.o.s. or Mercaptan mixtures, liquid, flammable, toxic, n.o.s.
UN1229	Mesityl oxide
UN1230	Methanol
UN1231	Methyl acetate
UN1233	Methylamyl acetate
UN1234	Methylal
UN1235	Methylamine, aqueous solution
UN1237	Methyl butyrate
UN1238	Methyl chloroformate
UN1239	Methyl chloromethyl ether
UN1242	Methyldichlorosilane
UN1243	Methyl formate
UN1244	Methylhydrazine
UN1245	Methyl isobutyl ketone
UN1246	Methyl isopropenyl ketone, stabilized
UN1247	Methyl methacrylate monomer, stabilized
UN1248	Methyl propionate
UN1249	Methyl propyl ketone
UN1250	Methyltrichlorosilane
UN1251	Methyl vinyl ketone, stabilized
UN1259	Nickel carbonyl
UN1261	Nitromethane
UN1262	Octanes
UN1263	Paint
UN1263	Paint related material
UN1264	Paraldehyde
UN1265	Pentanes
UN1266	Perfumery products
UN1267	Petroleum crude oil
UN1268	Petroleum distillates, n.o.s. or Petroleum products, n.o.s.
UN1272	Pine oil
UN1274	n-Propanol or Propyl alcohol, normal
UN1275	Propionaldehyde
UN1276	n-Propyl acetate
UN1277	Propylamine
UN1278	1-Chloropropane
UN1279	1,2-Dichloropropane
UN1280	Propylene oxide
UN1281	Propyl formates
UN1282	Pyridine
UN1286	Rosin oil
UN1287	Rubber solution
UN1288	Shale oil
UN1289	Sodium methylate solutions
UN1292	Tetraethyl silicate
UN1293	Tinctures, medicinal
UN1294	Toluene
UN1295	Trichlorosilane
UN1296	Triethylamine
UN1297	Trimethylamine, aqueous solutions
UN1298	Trimethylchlorosilane
UN1299	Turpentine
UN1300	Turpentine substitute

UN1301	Vinyl acetate, stabilized
UN1302	Vinyl ethyl ether, stabilized
UN1303	Vinylidene chloride, stabilized
UN1304	Vinyl isobutyl ether, stabilized
UN1305	Vinyltrichlorosilane, stabilized
UN1306	Wood preservatives, liquid
UN1307	Xylenes
UN1308	Zirconium suspended in a liquid
UN1309	Aluminum powder, coated
UN1310	Ammonium picrate, wetted
UN1312	Borneol
UN1313	Calcium resinate
UN1314	Calcium resinate, fused
UN1318	Cobalt resinate, precipitated
UN1320	Dinitrophenol, wetted
UN1321	Dinitrophenolates, wetted
UN1322	Dinitrosorcinol, wetted
UN1323	Ferrocium
UN1324	Films, nitrocellulose base
UN1325	Flammable solids, organic, n.o.s.
UN1326	Hafnium powder, wetted
UN1328	Hexamethylenetetramine
UN1330	Manganese resinate
UN1331	Matches, strike anywhere
UN1332	Metaldehyde
UN1333	Cerium
UN1334	Naphthalene, crude or Naphthalene
UN1336	Nitroguanidine, wetted or Picrite, wetted
UN1337	Nitrostarch, wetted
UN1338	Phosphorus, amorphous
UN1339	Phosphorus heptasulfide
UN1340	Phosphorus pentasulfide
UN1341	Phosphorus sesquisulfide
UN1343	Phosphorus trisulfide
UN1344	Trinitrophenol, wetted
UN1345	Rubber scrap or Shoddy
UN1346	Silicon powder, amorphous
UN1347	Silver picrate, wetted
UN1348	Sodium dinitro-o-cresolate, wetted
UN1349	Sodium picramate, wetted
UN1350	Sulfur
UN1352	Titanium powder, wetted
UN1353	Fibers or Fabrics impregnated with weakly nitrated nitrocellulose, n.o.s.
UN1354	Trinitrobenzene, wetted
UN1355	Trinitrobenzoic acid, wetted
UN1356	Trinitrotoluene, wetted
UN1357	Urea nitrate, wetted
UN1358	Zirconium powder, wetted
UN1360	Calcium phosphide
UN1361	Carbon
UN1362	Carbon, activated
UN1363	Copra
UN1364	Cotton waste, oily
UN1365	Cotton, wet
UN1366	Diethylzinc
UN1369	p-Nitrosodimethylaniline
UN1370	Dimethylzinc
UN1372	Fibers, animal or Fibers, vegetable
UN1373	Fibers or Fabrics, animal or vegetable or Synthetic, n.o.s.
UN1374	Fish meal, unstabilized or Fish scrap, unstabilized

UN1376	Iron oxide, spent, or Iron sponge, spent
UN1378	Metal catalyst, wetted
UN1379	Paper, unsaturated oil treated
UN1380	Pentaborane
UN1381	Phosphorus, white dry or Phosphorus, white, under water or Phosphorus white, in solution or Phosphorus, yellow dry or Phosphorus, yellow, under water or Phosphorus, yellow, in solution
UN1382	Potassium sulfide, anhydrous or Potassium sulfide
UN1383	Pyrophoric metals, n.o.s. or Pyrophoric alloys, n.o.s.
UN1384	Sodium dithionite or Sodium hydrosulfite
UN1385	Sodium sulfide, anhydrous or Sodium sulfide
UN1386	Seed cake
UN1387	Wool waste, wet
UN1389	Alkali metal amalgam, liquid
UN1390	Alkali metal amides
UN1391	Alkali metal dispersions, or Alkaline earth metal dispersions
UN1392	Alkaline earth metal amalgams, liquid
UN1393	Alkaline earth metal alloys, n.o.s.
UN1394	Aluminum carbide
UN1395	Aluminum ferrosilicon powder
UN1396	Aluminum powder, uncoated
UN1397	Aluminum phosphide
UN1398	Aluminum silicon powder, uncoated
UN1400	Barium
UN1401	Calcium
UN1402	Calcium carbide
UN1403	Calcium cyanamide
UN1404	Calcium hydride
UN1405	Calcium silicide
UN1407	Cesium or Caesium
UN1408	Ferrosilicon
UN1409	Metal hydrides, water reactive, n.o.s.
UN1410	Lithium aluminum hydride
UN1411	Lithium aluminum hydride, ethereal
UN1413	Lithium borohydride
UN1414	Lithium hydride
UN1415	Lithium
UN1417	Lithium silicon
UN1418	Magnesium, powder or Magnesium alloys, powder
UN1419	Magnesium aluminum phosphide
UN1420	Potassium, metal alloys, liquid
UN1421	Alkali metal alloys, liquid, n.o.s.
UN1422	Potassium sodium alloys, liquid
UN1423	Rubidium
UN1426	Sodium borohydride
UN1427	Sodium hydride
UN1428	Sodium
UN1431	Sodium methylate
UN1432	Sodium phosphide
UN1433	Stannic phosphide
UN1435	Zinc ashes
UN1436	Zinc powder or Zinc dust
UN1437	Zirconium hydride

UN1438	Aluminum nitrate
UN1439	Ammonium dichromate
UN1442	Ammonium perchlorate
UN1444	Ammonium persulfate
UN1445	Barium chlorate, solid
UN1446	Barium nitrate
UN1447	Barium perchlorate, solid
UN1448	Barium permanganate
UN1449	Barium peroxide
UN1450	Bromates, inorganic, n.o.s.
UN1451	Cesium nitrate or Caesium nitrate
UN1452	Calcium chlorate
UN1453	Calcium chlorite
UN1454	Calcium nitrate
UN1455	Calcium perchlorate
UN1456	Calcium permanganate
UN1457	Calcium peroxide
UN1458	Chlorate and borate mixtures
UN1459	Chlorate and magnesium chloride mixtures, solid
UN1461	Chlorates, inorganic, n.o.s.
UN1462	Chlorites, inorganic, n.o.s.
UN1463	Chromium trioxide, anhydrous
UN1465	Didymium nitrate
UN1466	Ferric nitrate
UN1467	Guanidine nitrate
UN1469	Lead nitrate
UN1470	Lead perchlorate, solid
UN1471	Lithium hypochlorite, dry or Lithium hypochlorite mixtures, dry
UN1472	Lithium peroxide
UN1473	Magnesium bromate
UN1474	Magnesium nitrate
UN1475	Magnesium perchlorate
UN1476	Magnesium peroxide
UN1477	Nitrates, inorganic, n.o.s.
UN1479	Oxidizing solid, n.o.s.
UN1481	Perchlorates, inorganic, n.o.s.
UN1482	Permanganates, inorganic, n.o.s.
UN1483	Peroxides, inorganic, n.o.s.
UN1484	Potassium bromate
UN1485	Potassium chlorate
UN1486	Potassium nitrate
UN1487	Potassium nitrate and sodium nitrite mixtures
UN1488	Potassium nitrite
UN1489	Potassium perchlorate
UN1490	Potassium permanganate
UN1491	Potassium peroxide
UN1492	Potassium persulfate
UN1493	Silver nitrate
UN1494	Sodium bromate
UN1495	Sodium chlorate
UN1496	Sodium chlorite
UN1498	Sodium nitrate
UN1499	Sodium nitrate and potassium nitrate mixtures
UN1500	Sodium nitrite
UN1502	Sodium perchlorate
UN1503	Sodium permanganate
UN1504	Sodium peroxide
UN1505	Sodium persulfate
UN1506	Strontium chlorate
UN1507	Strontium nitrate
UN1508	Strontium perchlorate
UN1509	Strontium peroxide

UN1510	Tetranitromethane
UN1511	Urea hydrogen peroxide
UN1512	Zinc ammonium nitrite
UN1513	Zinc chlorate
UN1514	Zinc nitrate
UN1515	Zinc permanganate
UN1516	Zinc peroxide
UN1517	Zirconium picramate, wetted
UN1541	Acetone cyanohydrin, stabilized
UN1544	Alkaloids, solid, n.o.s. or Alkaloid salts, solid, n.o.s.
UN1545	Allyl isothiocyanate, stabilized
UN1546	Ammonium arsenate
UN1547	Aniline
UN1548	Aniline hydrochloride
UN1549	Antimony compounds, inorganic, solid, n.o.s.
UN1550	Antimony lactate
UN1551	Antimony potassium tartrate
UN1553	Arsenic acid, liquid
UN1554	Arsenic acid, solid
UN1555	Arsenic bromide
UN1556	Arsenic compounds, liquid, n.o.s.
UN1557	Arsenic compounds, solid, n.o.s.
UN1558	Arsenic
UN1559	Arsenic pentoxide
UN1560	Arsenic trichloride
UN1561	Arsenic trioxide
UN1562	Arsenical dust
UN1564	Barium compounds, n.o.s.
UN1565	Barium cyanide
UN1566	Beryllium compounds, n.o.s.
UN1567	Beryllium, powder
UN1569	Bromoacetone
UN1570	Brucine
UN1571	Barium azide, wetted
UN1572	Cacodylic acid
UN1573	Calcium arsenate
UN1574	Calcium arsenate and calcium arsenite, mixtures, solid
UN1575	Calcium cyanide
UN1577	Chlorodinitrobenzenes, liquid
UN1578	Chloronitrobenzene, solid
UN1579	4-Chloro-o-toluidine hydrochloride, solid
UN1580	Chloropicrin
UN1581	Chloropicrin and methyl bromide mixtures
UN1582	Chloropicrin and methyl chloride mixtures
UN1583	Chloropicrin mixtures, n.o.s.
UN1585	Copper acetoarsenite
UN1586	Copper arsenite
UN1587	Copper cyanide
UN1588	Cyanides, inorganic, solid, n.o.s.
UN1589	Cyanogen chloride, stabilized
UN1590	Dichloroanilines, liquid
UN1591	o-Dichlorobenzene
UN1593	Dichloromethane
UN1594	Diethyl sulfate
UN1595	Dimethyl sulfate
UN1596	Dinitroanilines
UN1597	Dinitrobenzenes, liquid
UN1598	Dinitro-o-cresol
UN1599	Dinitrophenol solutions
UN1600	Dinitrotoluenes, molten
UN1601	Disinfectants, solid, toxic, n.o.s.

UN1602	Dyes, liquid, toxic, n.o.s. or Dye intermediates, liquid, toxic, n.o.s.
UN1603	Ethyl bromoacetate
UN1604	Ethylenediamine
UN1605	Ethylene dibromide
UN1606	Ferric arsenate
UN1607	Ferric arsenite
UN1608	Ferrous arsenate
UN1611	Hexaethyl tetraphosphate
UN1612	Hexaethyl tetraphosphate and compressed gas mixtures
UN1613	Hydrocyanic acid, aqueous solutions or hydrogen cyanide, aqueous solutions
UN1614	Hydrogen cyanide, stabilized
UN1616	Lead acetate
UN1617	Lead arsenates
UN1618	Lead arsenites
UN1620	Lead cyanide
UN1621	London purple
UN1622	Magnesium arsenate
UN1623	Mercuric arsenate
UN1624	Mercuric chloride
UN1625	Mercuric nitrate
UN1626	Mercuric potassium cyanide
UN1627	Mercurous nitrate
UN1629	Mercury acetate
UN1630	Mercury ammonium chloride
UN1631	Mercury benzoate
UN1634	Mercury bromides
UN1636	Mercury cyanide
UN1637	Mercury gluconate
UN1638	Mercury iodide
UN1639	Mercury nucleate
UN1640	Mercury oleate
UN1641	Mercury oxide
UN1642	Mercury oxycyanide, desensitized
UN1643	Mercury potassium iodide
UN1644	Mercury salicylate
UN1645	Mercury sulfates
UN1646	Mercury thiocyanate
UN1647	Methyl bromide and ethylene dibromide mixtures, liquid
UN1648	Acetonitrile
UN1649	Motor fuel anti-knock mixtures
UN1650	beta-Naphthylamine
UN1650	beta-Naphthylamine, solid
UN1651	Naphthylthiourea
UN1652	Naphthylurea
UN1653	Nickel cyanide
UN1654	Nicotine
UN1655	Nicotine compounds, solid, n.o.s. or Nicotine preparations, solid, n.o.s.
UN1656	Nicotine hydrochloride liquid or solution
UN1657	Nicotine salicylate
UN1658	Nicotine sulfate solution
UN1659	Nicotine tartrate
UN1660	Nitric oxide, compressed
UN1661	Nitroanilines (o-; m-; p-;)
UN1662	Nitrobenzene
UN1663	Nitrophenols (o-; m-; p-;)
UN1664	Nitrotoluenes, liquid
UN1665	Nitroxylens, liquid
UN1669	Pentachloroethane
UN1670	Perchloromethyl mercaptan

UN1671	Phenol, solid
UN1672	Phenylcarbylamine chloride
UN1673	Phenylenediamines (o-; m-; p-;)
UN1674	Phenylmercuric acetate
UN1677	Potassium arsenate
UN1678	Potassium arsenite
UN1679	Potassium cuprocyanide
UN1680	Potassium cyanide, solid
UN1683	Silver arsenite
UN1684	Silver cyanide
UN1685	Sodium arsenate
UN1686	Sodium arsenite, aqueous solutions
UN1687	Sodium azide
UN1688	Sodium cacodylate
UN1689	Sodium cyanide, solid
UN1690	Sodium fluoride, solid
UN1691	Strontium arsenite
UN1692	Strychnine or Strychnine salts
UN1693	Tear gas substances, liquid, n.o.s.
UN1694	Bromobenzyl cyanides, liquid
UN1695	Chloroacetone, stabilized
UN1697	Chloroacetophenone, solid (CN)
UN1698	Diphenylamine chloroarsine
UN1699	Diphenylchloroarsine, liquid
UN1700	Tear gas candles
UN1701	Xylyl bromide, liquid
UN1702	1, 1, 2, 2-Tetrachloroethane
UN1704	Tetraethyl dithiopyrophosphate
UN1707	Thallium compounds, n.o.s.
UN1708	Toluidines , liquid
UN1709	2,4-Toluylenediamine, solid or 2,4-Toluenediamine, solid
UN1710	Trichloroethylene
UN1711	Xylidines, liquid
UN1712	Zinc arsenate or Zinc arsenite or Zinc arsenate and zinc arsenite mixtures
UN1713	Zinc cyanide
UN1714	Zinc phosphide
UN1715	Acetic anhydride
UN1716	Acetyl bromide
UN1717	Acetyl chloride
UN1718	Butyl acid phosphate
UN1719	Caustic alkali liquids, n.o.s.
UN1722	Allyl chloroformate
UN1723	Allyl iodide
UN1724	Allyltrichlorosilane, stabilized
UN1725	Aluminum bromide, anhydrous
UN1726	Aluminum chloride, anhydrous
UN1727	Ammonium hydrogendifluoride, solid
UN1728	Amyltrichlorosilane
UN1729	Anisoyl chloride
UN1730	Antimony pentachloride, liquid
UN1731	Antimony pentachloride, solutions
UN1732	Antimony pentafluoride
UN1733	Antimony trichloride, liquid
UN1733	Antimony trichloride, solid
UN1736	Benzoyl chloride
UN1737	Benzyl bromide
UN1738	Benzyl chloride
UN1739	Benzyl chloroformate
UN1740	Hydrogendifluoride, solid, n.o.s.
UN1741	Boron trichloride
UN1742	Boron trifluoride acetic acid complex, liquid

UN1743	Boron trifluoride propionic acid complex, liquid
UN1744	Bromine or Bromine solutions
UN1745	Bromine pentafluoride
UN1746	Bromine trifluoride
UN1747	Butyltrichlorosilane
UN1748	Calcium hypochlorite, dry or Calcium hypochlorite mixtures dry
UN1749	Chlorine trifluoride
UN1750	Chloroacetic acid, solution
UN1751	Chloroacetic acid, solid
UN1752	Chloroacetyl chloride
UN1753	Chlorophenyltrichlorosilane
UN1754	Chlorosulfonic acid
UN1755	Chromic acid solution
UN1756	Chromic fluoride, solid
UN1757	Chromic fluoride, solution
UN1758	Chromium oxychloride
UN1759	Corrosive solids, n.o.s.
UN1760	Corrosive liquids, n.o.s.
UN1761	Cupriethylenediamine solution
UN1762	Cyclohexenyltrichlorosilane
UN1763	Cyclohexyltrichlorosilane
UN1764	Dichloroacetic acid
UN1765	Dichloroacetyl chloride
UN1766	Dichlorophenyltrichlorosilane
UN1767	Diethylchlorosilane
UN1768	Difluorophosphoric acid, anhydrous
UN1769	Diphenyldichlorosilane
UN1770	Diphenylmethyl bromide
UN1771	Dodecyltrichlorosilane
UN1773	Ferric chloride, anhydrous
UN1774	Fire extinguisher charges
UN1775	Fluoroboric acid
UN1776	Fluorophosphoric acid anhydrous
UN1777	Fluorosulfonic acid
UN1778	Fluorosilicic acid
UN1779	Formic acid
UN1780	Fumaryl chloride
UN1781	Hexadecyltrichlorosilane
UN1782	Hexafluorophosphoric acid
UN1783	Hexamethylenediamine solution
UN1784	Hexyltrichlorosilane
UN1786	Hydrofluoric acid and Sulfuric acid mixtures
UN1787	Hydriodic acid
UN1788	Hydrobromic acid
UN1789	Hydrochloric acid
UN1790	Hydrofluoric acid
UN1791	Hypochlorite solutions
UN1792	Iodine monochloride
UN1793	Isopropyl acid phosphate
UN1794	Lead sulfate
UN1796	Nitrating acid mixtures
UN1798	Nitrohydrochloric acid
UN1799	Nonyltrichlorosilane
UN1800	Octadecyltrichlorosilane
UN1801	Octyltrichlorosilane
UN1802	Perchloric acid
UN1803	Phenolsulfonic acid, liquid
UN1804	Phenyltrichlorosilane
UN1805	Phosphoric acid solution
UN1806	Phosphorus pentachloride
UN1807	Phosphorus pentoxide
UN1808	Phosphorus tribromide

UN1809	Phosphorus trichloride
UN1810	Phosphorus oxychloride
UN1811	Potassium hydrogendifluoride solid
UN1812	Potassium fluoride, solid
UN1813	Potassium hydroxide, solid
UN1814	Potassium hydroxide, solution
UN1815	Propionyl chloride
UN1816	Propyltrichlorosilane
UN1817	Pyrosulfuryl chloride
UN1818	Silicon tetrachloride
UN1819	Sodium aluminate, solution
UN1823	Sodium hydroxide, solid
UN1824	Sodium hydroxide solution
UN1825	Sodium monoxide
UN1826	Nitrating acid mixtures, spent
UN1827	Stannic chloride, anhydrous
UN1828	Sulfur chlorides
UN1829	Sulfur trioxide, stabilized
UN1830	Sulfuric acid
UN1831	Sulfuric acid, fuming
UN1832	Sulfuric acid, spent
UN1833	Sulfurous acid
UN1834	Sulfuryl chloride
UN1835	Tetramethylammonium hydroxide solution
UN1836	Thionyl chloride
UN1837	Thiophosphoryl chloride
UN1838	Titanium tetrachloride
UN1839	Trichloroacetic acid
UN1840	Zinc chloride, solution
UN1841	Acetaldehyde ammonia
UN1843	Ammonium dinitro-o-cresolate, solid
UN1845	Carbon dioxide, solid or Dry ice
UN1846	Carbon tetrachloride
UN1847	Potassium sulfide, hydrated
UN1848	Propionic acid
UN1849	Sodium sulfide, hydrated
UN1851	Medicine, liquid, toxic, n.o.s.
UN1854	Barium alloys, pyrophoric
UN1855	Calcium, pyrophoric or Calcium alloys, pyrophoric
UN1856	Rags, oily
UN1857	Textiles waste, wet
UN1858	Hexafluoropropylene, compressed or Refrigerant gas R 1216
UN1859	Silicon tetrafluoride
UN1860	Vinyl fluoride, stabilized
UN1862	Ethyl crotonate
UN1863	Fuel, aviation, turbine engine
UN1865	n-Propyl nitrate
UN1866	Resin solution
UN1868	Decaborane
UN1869	Magnesium or Magnesium alloys
UN1870	Potassium borohydride
UN1871	Titanium hydride
UN1872	Lead dioxide
UN1873	Perchloric acid
UN1884	Barium oxide
UN1885	Benzidine
UN1886	Benzylidene chloride
UN1887	Bromochloromethane
UN1888	Chloroform
UN1889	Cyanogen bromide
UN1891	Ethyl bromide
UN1892	Ethylchloroarsine

UN1894	Phenylmercuric hydroxide
UN1895	Phenylmercuric nitrate
UN1897	Tetrachloroethylene
UN1898	Acetyl iodide
UN1902	Diisooctyl acid phosphate
UN1903	Disinfectant, liquid, corrosive n.o.s.
UN1905	Selenic acid
UN1906	Sludge, acid
UN1907	Soda lime
UN1908	Chlorite solution
UN1910	Calcium oxide
UN1911	Diborane
UN1912	Methyl chloride and methylene chloride mixtures
UN1913	Neon, refrigerated liquid
UN1914	Butyl propionates
UN1915	Cyclohexanone
UN1916	2,2'-Dichlorodiethyl ether
UN1917	Ethyl acrylate, stabilized
UN1918	Isopropylbenzene
UN1919	Methyl acrylate, stabilized
UN1920	Nonanes
UN1921	Propyleneimine, stabilized
UN1922	Pyrrolidine
UN1923	Calcium dithionite or Calcium hydrosulfite
UN1928	Methyl magnesium bromide, in ethyl ether
UN1929	Potassium dithionite or Potassium hydrosulfite
UN1931	Zinc dithionite or Zinc hydrosulfite
UN1932	Zirconium scrap
UN1935	Cyanide solutions, n.o.s.
UN1938	Bromoacetic acid solution
UN1939	Phosphorus oxybromide
UN1940	Thioglycolic acid
UN1941	Dibromodifluoromethane
UN1942	Ammonium nitrate
UN1944	Matches, safety
UN1945	Matches, wax, Vesta
UN1950	Aerosols
UN1950	Aerosols, flammable, n.o.s.
UN1951	Argon, refrigerated liquid
UN1952	Ethylene oxide and carbon dioxide mixtures
UN1953	Compressed gas, toxic, flammable, n.o.s.
UN1954	Compressed gases, flammable, n.o.s.
UN1955	Compressed gas, toxic, n.o.s.
UN1956	Compressed gas, n.o.s.
UN1957	Deuterium, compressed
UN1958	1,2-Dichloro-1,1,2,2-Tetrafluoroethane or Refrigerant gas, R114
UN1959	1,1-Difluoroethylene or Refrigerant gas R 1132a
UN1961	Ethane, refrigerated liquid
UN1962	Ethylene
UN1963	Helium, refrigerated liquid
UN1964	Hydrocarbon gas mixture, compressed, n.o.s.
UN1965	Hydrocarbon gas mixture, liquefied, n.o.s.
UN1966	Hydrogen, refrigerated liquid
UN1967	Insecticide gases, toxic, n.o.s.
UN1968	Insecticide gases, n.o.s.

UN1969	Isobutane
UN1970	Krypton, refrigerated liquid
UN1971	Methane, compressed or Natural gas, compressed
UN1972	Methane, refrigerated liquid or Natural gas, refrigerated liquid
UN1973	Chlorodifluoromethane and chloropentafluoroethane mixture or Refrigerant gas R 502
UN1974	Chlorodifluorobromomethane or Refrigerant gas R 12B1
UN1975	Nitric oxide and dinitrogen tetroxide mixtures or Nitric oxide and nitrogen dioxide mixtures
UN1976	Octafluorocyclobutane or Refrigerant gas R C318
UN1977	Nitrogen, refrigerated liquid
UN1978	Propane see also Petroleum gases, liquefied
UN1982	Tetrafluoromethane or Refrigerant gas R 14
UN1983	1-Chloro-2,2,2-trifluoroethane or Refrigerant gas R 133a
UN1984	Trifluoromethane or Refrigerant gas R 23
UN1986	Alcohols, flammable, toxic, n.o.s.
UN1987	Alcohols, n.o.s.
UN1988	Aldehydes, flammable, toxic, n.o.s.
UN1989	Aldehydes, n.o.s.
UN1990	Benzaldehyde
UN1991	Chloroprene, stabilized
UN1992	Flammable liquids, toxic, n.o.s.
UN1993	Flammable liquids, n.o.s.
UN1994	Iron pentacarbonyl
UN1999	Tars, liquid
UN2000	Celluloid
UN2001	Cobalt naphthenates, powder
UN2002	Celluloid, scrap
UN2004	Magnesium diamide
UN2005	Magnesium diphenyl
UN2006	Plastics, nitrocellulose-based, self-heating, n.o.s.
UN2008	Zirconium powder, dry
UN2009	Zirconium, dry
UN2010	Magnesium hydride
UN2011	Magnesium phosphide
UN2012	Potassium phosphide
UN2013	Strontium phosphide
UN2014	Hydrogen peroxide, aqueous solutions
UN2015	Hydrogen peroxide, stabilized or Hydrogen peroxide aqueous solutions, stabilized
UN2016	Ammunition, toxic, non-explosive
UN2017	Ammunition, tear-producing, non-explosive
UN2018	Chloroanilines, solid
UN2019	Chloroanilines, liquid
UN2020	Chlorophenols, solid
UN2021	Chlorophenols, liquid
UN2022	Cresylic acid
UN2023	Epichlorohydrin
UN2024	Mercury compounds, liquid, n.o.s.
UN2025	Mercury compounds, solid, n.o.s.
UN2026	Phenylmercuric compounds, n.o.s.
UN2027	Sodium arsenite, solid
UN2028	Bombs, smoke, non-explosive

UN2029	Hydrazine, anhydrous
UN2030	Hydrazine aqueous solutions
UN2031	Nitric acid
UN2032	Nitric acid, red fuming
UN2033	Potassium monoxide
UN2034	Hydrogen and Methane mixtures, compressed
UN2035	1,1,1-Trifluoroethane, compressed or Refrigerant gas R 143a
UN2036	Xenon
UN2037	Gas cartridges
UN2037	Receptacles, small, containing gas (gas cartridges)
UN2038	Dinitrotoluenes
UN2044	2,2-Dimethylpropane
UN2045	Isobutyraldehyde or Isobutyl aldehyde
UN2046	Cymenes
UN2047	Dichloropropenes
UN2048	Dicyclopentadiene
UN2049	Diethylbenzene
UN2050	Diisobutylene, isomeric compounds
UN2051	2-Dimethylaminoethanol
UN2052	Dipentene
UN2053	Methyl isobutyl carbinol
UN2054	Morpholine
UN2055	Styrene monomer, stabilized
UN2056	Tetrahydrofuran
UN2057	Tripropylene
UN2058	Valeraldehyde
UN2059	Nitrocellulose, solution, flammable
UN2067	Ammonium nitrate based fertilizers
UN2071	Ammonium nitrate based fertilizers
UN2073	Ammonia solutions
UN2074	Acrylamide, solid
UN2075	Chloral, anhydrous, stabilized
UN2076	Cresols, liquid
UN2077	alpha-Naphthylamine
UN2078	Toluene diisocyanate
UN2079	Diethylenetriamine
UN2186	Hydrogen chloride, refrigerated liquid
UN2187	Carbon dioxide, refrigerated liquid
UN2188	Arsine
UN2189	Dichlorosilane
UN2190	Oxygen difluoride, compressed
UN2191	Sulfuryl fluoride
UN2192	Germane
UN2193	Hexafluoroethane or Refrigerant gas R 116
UN2194	Selenium hexafluoride
UN2195	Tellurium hexafluoride
UN2196	Tungsten hexafluoride
UN2197	Hydrogen iodide, anhydrous
UN2198	Phosphorus
UN2199	Phosphine
UN2200	Propadiene, stabilized
UN2201	Nitrogen oxide, refrigerated liquid
UN2202	Hydrogen selenide, anhydrous
UN2203	Silane
UN2204	Carbonyl sulfide
UN2205	Adiponitrile
UN2206	Isocyanates, toxic, n.o.s. or Isocyanate, solutions, toxic, n.o.s.
UN2208	Calcium hypochlorite mixtures, dry
UN2209	Formaldehyde, solutions

UN2210	Maneb or Maneb preparations
UN2211	Polymeric beads, expandable
UN2212	Blue asbestos or Brown asbestos
UN2213	Paraformaldehyde
UN2214	Phthalic anhydride
UN2215	Maleic anhydride
UN2215	Maleic anhydride, molten
UN2216	Fish meal, stabilized or Fish scrap, stabilized
UN2217	Seed cake
UN2218	Acrylic acid, stabilized
UN2219	Allyl glycidyl ether
UN2222	Anisole
UN2224	Benzonitrile
UN2225	Benzene sulfonyl chloride
UN2226	Benzotrichloride
UN2227	n-Butyl methacrylate, stabilized
UN2232	2-Chloroethanal
UN2233	Chloroanisidines
UN2234	Chlorobenzotrifluorides
UN2235	Chlorobenzyl chlorides, liquid
UN2236	3-Chloro-4-methylphenyl isocyanate, liquid
UN2237	Chloronitroanilines
UN2238	Chlorotoluenes
UN2239	Chlorotoluidines, solid
UN2240	Chromosulfuric acid
UN2241	Cycloheptane
UN2242	Cycloheptene
UN2243	Cyclohexyl acetate
UN2244	Cyclopentanol
UN2245	Cyclopentanone
UN2246	Cyclopentene
UN2247	n-Decane
UN2248	Di-n-butylamine
UN2249	Dichlorodimethyl ether, symmetrical
UN2250	Dichlorophenyl isocyanates
UN2251	Bicyclo[2,2,1]hepta-2,5-diene, stabilized or 2,5-Norbornadiene stabilized
UN2252	1,2-Dimethoxyethane
UN2253	N,N-Dimethylaniline
UN2254	Matches, fusee
UN2256	Cyclohexene
UN2257	Potassium
UN2258	1,2-Propylenediamine
UN2259	Triethylenetetramine
UN2260	Tripropylamine
UN2261	Xylenols, solid
UN2262	Dimethylcarbamoyl chloride
UN2263	Dimethylcyclohexanes
UN2264	N,N-Dimethylcyclohexylamine
UN2265	N,N-Dimethylformamide
UN2266	Dimethyl-N-propylamine
UN2267	Dimethyl thiophosphoryl chloride
UN2269	3,3'-Iminodipropylamine
UN2270	Ethylamine, aqueous solution
UN2271	Ethyl amyl ketone
UN2272	n-Ethylaniline
UN2273	2-Ethylaniline
UN2274	N-Ethyl-N-benzylaniline
UN2275	2-Ethylbutanol
UN2276	2-Ethylhexylamine
UN2277	Ethyl methacrylate, stabilized
UN2278	n-Heptene
UN2279	Hexachlorobutadiene

UN2280	Hexamethylenediamine, solid
UN2281	Hexamethylene diisocyanate
UN2282	Hexanols
UN2283	Isobutyl methacrylate, stabilized
UN2284	Isobutyronitrile
UN2285	Isocyanatobenzotrifluorides
UN2286	Pentamethylheptane
UN2287	Isoheptenes
UN2288	Isohexenes
UN2289	Isophoronediamine
UN2290	Isophorone diisocyanate
UN2291	Lead compounds, soluble, n.o.s.
UN2293	4-Methoxy-4-methylpentan-2-one
UN2294	N-Methylaniline
UN2295	Methyl chloroacetate
UN2296	Methylcyclohexane
UN2297	Methylcyclohexanone
UN2298	Methylcyclopentane
UN2299	Methyl dichloroacetate
UN2300	2-Methyl-5-ethylpyridine
UN2301	2-Methylfuran
UN2302	5-Methylhexan-2-one
UN2303	Isopropenylbenzene
UN2304	Naphthalene, molten
UN2305	Nitrobenzenesulfonic acid
UN2306	Nitrobenzotrifluorides, liquid
UN2307	3-Nitro-4-chlorobenzotrifluoride
UN2308	Nitrosylsulfuric acid, liquid
UN2309	Octadiene
UN2310	Pentane-2,4-dione
UN2311	Phenetidines
UN2312	Phenol, molten
UN2313	Picolines
UN2315	Polychlorinated biphenyls, liquid
UN2316	Sodium cuprocyanide, solid
UN2317	Sodium cuprocyanide, solution
UN2318	Sodium hydrosulfide
UN2319	Terpene hydrocarbons, n.o.s.
UN2320	Tetraethylenepentamine
UN2321	Trichlorobenzenes, liquid
UN2322	Trichlorobutene
UN2323	Triethyl phosphite
UN2324	Triisobutylene
UN2325	1,3,5-Trimethylbenzene
UN2326	Trimethylcyclohexylamine
UN2327	Trimethylhexamethylenediamines
UN2328	Trimethylhexamethylene diisocyanate
UN2329	Trimethyl phosphite
UN2330	Undecane
UN2331	Zinc chloride, anhydrous
UN2332	Acetaldehyde oxime
UN2333	Allyl acetate
UN2334	Allylamine
UN2335	Allyl ethyl ether
UN2336	Allyl formate
UN2337	Phenyl mercaptan
UN2338	Benzotrifluoride
UN2339	2-Bromobutane
UN2340	2-Bromoethyl ethyl ether
UN2341	1-Bromo-3-methylbutane
UN2342	Bromomethylpropanes
UN2343	2-Bromopentane
UN2344	Bromopropanes
UN2345	3-Bromopropyne
UN2346	Butanedione

UN2347	Butyl mercaptans
UN2348	Butyl acrylates, stabilized
UN2350	Butyl methyl ether
UN2351	Butyl nitrites
UN2352	Butyl vinyl ether, stabilized
UN2353	Butyryl chloride
UN2354	Chloromethyl ethyl ether
UN2356	2-Chloropropane
UN2357	Cyclohexylamine
UN2358	Cyclooctatetraene
UN2359	Diallylamine
UN2360	Diallylether
UN2361	Diisobutylamine
UN2362	1,1-Dichloroethane
UN2363	Ethyl mercaptan
UN2364	n-Propyl benzene
UN2366	Diethyl carbonate
UN2367	alpha-Methylvaleraldehyde
UN2368	alpha-Pinene
UN2370	1-Hexene
UN2371	Isopentenes
UN2372	1,2-Di-(dimethylamino)ethane
UN2373	Diethoxymethane
UN2374	3,3-Diethoxypropene
UN2375	Diethyl sulfide
UN2376	2,3-Dihydropyran
UN2377	1,1-Dimethoxyethane
UN2378	2-Dimethylaminoacetone nitrile
UN2379	1,3-Dimethylbutylamine
UN2380	Dimethyldiethoxysilane
UN2381	Dimethyl disulfide
UN2382	Dimethylhydrazine, symmetrical
UN2383	Dipropylamine
UN2384	Di-n-propyl ether
UN2385	Ethyl isobutyrate
UN2386	1-Ethylpiperidine
UN2387	Fluorobenzene
UN2388	Fluorotoluenes
UN2389	Furan
UN2390	2-Iodobutane
UN2391	Iodomethylpropanes
UN2392	Iodopropanes
UN2393	Isobutyl formate
UN2394	Isobutyl propionate
UN2395	Isobutyryl chloride
UN2396	Methacrylaldehyde, stabilized
UN2397	3-Methylbutan-2-one
UN2398	Methyl tert-butyl ether
UN2399	1-Methylpiperidine
UN2400	Methyl isovalerate
UN2401	Piperidine
UN2402	Propanethiols
UN2403	Isopropenyl acetate
UN2404	Propionitrile
UN2405	Isopropyl butyrate
UN2406	Isopropyl isobutyrate
UN2407	Isopropyl chloroformate
UN2409	Isopropyl propionate
UN2410	1,2,3,6-Tetrahydropyridine
UN2411	Butyronitrile
UN2412	Tetrahydrothiophene
UN2413	Tetrapropylorthotitanate
UN2414	Thiophene
UN2416	Trimethyl borate
UN2417	Carbonyl fluoride
UN2418	Sulfur tetrafluoride

UN2419	Bromotrifluoroethylene
UN2420	Hexafluoroacetone
UN2421	Nitrogen trioxide
UN2422	Octafluorobut-2-ene or Refrigerant gas R 1318
UN2424	Octafluoropropane or Refrigerant gas R 218
UN2426	Ammonium nitrate, liquid
UN2427	Potassium chlorate, aqueous solution
UN2428	Sodium chlorate, aqueous solution
UN2429	Calcium chlorate aqueous solution
UN2430	Alkylphenols, solid, n.o.s.
UN2431	Anisidines
UN2432	N,N-Diethylaniline
UN2433	Chloronitrotoluenes, liquid
UN2434	Dibenzylidichlorosilane
UN2435	Ethylphenyldichlorosilane
UN2436	Thioacetic acid
UN2437	Methylphenyldichlorosilane
UN2438	Trimethylacetyl chloride
UN2439	Sodium hydrogendifluoride
UN2440	Stannic chloride, pentahydrate
UN2441	Titanium trichloride, pyrophoric or Titanium trichloride mixtures, pyrophoric
UN2442	Trichloroacetyl chloride
UN2443	Vanadium oxytrichloride
UN2444	Vanadium tetrachloride
UN2445	Lithium alkyls, liquid
UN2446	Nitrocresols, solid
UN2447	Phosphorus white, molten
UN2448	Sulfur, molten
UN2451	Nitrogen trifluoride
UN2452	Ethylacetylene, stabilized
UN2453	Ethyl fluoride or Refrigerant gas R 161
UN2454	Methyl fluoride or Refrigerant gas R 41
UN2456	2-Chloropropene
UN2457	2,3-Dimethylbutane
UN2458	Hexadienes
UN2459	2-Methyl-1-butene
UN2460	2-Methyl-2-butene
UN2461	Methylpentadienes
UN2463	Aluminum hydride
UN2464	Beryllium nitrate
UN2465	Dichloroisocyanuric acid, dry or Dichloroisocyanuric acid salts
UN2466	Potassium superoxide
UN2468	Trichloroisocyanuric acid, dry
UN2469	Zinc bromate
UN2470	Phenylacetoneitrile, liquid
UN2471	Osmium tetroxide
UN2473	Sodium arsenilate
UN2474	Thiophosgene
UN2475	Vanadium trichloride
UN2477	Methyl isothiocyanate
UN2478	Isocyanates, flammable, toxic, n.o.s. or Isocyanate solutions, flammable, toxic, n.o.s.
UN2480	Methyl isocyanate
UN2481	Ethyl isocyanate
UN2482	n-Propyl isocyanate
UN2483	Isopropyl isocyanate
UN2484	tert-Butyl isocyanate
UN2485	n-Butyl isocyanate

UN2486	Isobutyl isocyanate
UN2487	Phenyl isocyanate
UN2488	Cyclohexyl isocyanate
UN2490	Dichloroisopropyl ether
UN2491	Ethanolamine or Ethanolamine solutions
UN2493	Hexamethyleneimine
UN2495	Iodine pentafluoride
UN2496	Propionic anhydride
UN2498	1,2,3,6-Tetrahydrobenzaldehyde
UN2501	Tris-(1-aziridinyl)phosphine oxide, solution
UN2502	Valeryl chloride
UN2503	Zirconium tetrachloride
UN2504	Tetrabromoethane
UN2505	Ammonium fluoride
UN2506	Ammonium hydrogen sulfate
UN2507	Chloroplatinic acid, solid
UN2508	Molybdenum pentachloride
UN2509	Potassium hydrogen sulfate
UN2511	2-Chloropropionic acid
UN2512	Aminophenols (o-; m-; p-)
UN2513	Bromoacetyl bromide
UN2514	Bromobenzene
UN2515	Bromoform
UN2516	Carbon tetrabromide
UN2517	1-Chloro-1,1-difluoroethanes or Refrigerant gas R 142b
UN2518	1,5,9-Cyclododecatriene
UN2520	Cyclooctadienes
UN2521	Diketene, stabilized
UN2522	2-Dimethylaminoethyl methacrylate
UN2524	Ethyl orthoformate
UN2525	Ethyl oxalate
UN2526	Furfurylamine
UN2527	Isobutyl acrylate, stabilized
UN2528	Isobutyl isobutyrate
UN2529	Isobutyric acid
UN2531	Methacrylic acid, stabilized
UN2533	Methyl trichloroacetate
UN2534	Methylchlorosilane
UN2535	4-Methylmorpholine or n-methylmorpholine
UN2536	Methyltetrahydrofuran
UN2538	Nitronaphthalene
UN2541	Terpinolene
UN2542	Tributylamine
UN2545	Hafnium powder, dry
UN2546	Titanium powder, dry
UN2547	Sodium superoxide
UN2548	Chlorine pentafluoride
UN2552	Hexafluoroacetone hydrate, liquid
UN2554	Methyl allyl chloride
UN2555	Nitrocellulose with water
UN2556	Nitrocellulose with alcohol
UN2557	Nitrocellulose or Nitrocellulose mixture with pigment or Nitrocellulose mixture with plasticizer or Nitrocellulose mixture with pigment and plasticizer
UN2558	Epibromohydrin
UN2560	2-Methylpentan-2-ol
UN2561	3-Methyl-1-butene
UN2564	Trichloroacetic acid, solution
UN2565	Dicyclohexylamine
UN2567	Sodium pentachlorophenate

UN2570	Cadmium compounds
UN2571	Alkylsulfuric acids
UN2572	Phenylhydrazine
UN2573	Thallium chlorate
UN2574	Tricresyl phosphate
UN2576	Phosphorus oxybromide, molten
UN2577	Phenylacetyl chloride
UN2578	Phosphorus trioxide
UN2579	Piperazine
UN2580	Aluminum bromide, solution
UN2581	Aluminum chloride, solution
UN2582	Ferric chloride, solution
UN2583	Alkyl sulfonic acids, solid or Aryl sulfonic acids, solid
UN2584	Alkyl sulfonic acids, liquid or Aryl sulfonic acids, liquid
UN2585	Alkyl sulfonic acids, solid or Aryl sulfonic acids, solid
UN2586	Alkyl sulfonic acids, liquid or Aryl sulfonic acids, liquid
UN2587	Benzoquinone
UN2588	Pesticides, solid, toxic, n.o.s.
UN2589	Vinyl chloroacetate
UN2590	White asbestos
UN2591	Xenon, refrigerated liquid
UN2599	Chlorotrifluoromethane and trifluoromethane azeotropic mixture or Refrigerant gas R 503
UN2601	Cyclobutane
UN2602	Dichlorodifluoromethane and difluoroethane azeotropic mixture or Refrigerant gas R 500
UN2603	Cycloheptatriene
UN2604	Boron trifluoride diethyl etherate
UN2605	Methoxymethyl isocyanate
UN2606	Methyl orthosilicate
UN2607	Acrolein dimer, stabilized
UN2608	Nitropropanes
UN2609	Triallyl borate
UN2610	Triallylamine
UN2611	Propylene chlorohydrin
UN2612	Methyl propyl ether
UN2614	Methallyl alcohol
UN2616	Triisopropyl borate
UN2617	Methylcyclohexanols
UN2618	Vinyltoluenes, stabilized
UN2619	Benzyl dimethylamine
UN2620	Amyl butyrates
UN2621	Acetyl methyl carbinol
UN2622	Glycidaldehyde
UN2623	Firelighters, solid
UN2624	Magnesium silicide
UN2626	Chloric acid aqueous solution
UN2627	Nitrites, inorganic, n.o.s.
UN2628	Potassium fluoroacetate
UN2629	Sodium fluoroacetate
UN2630	Selenates or Selenites
UN2642	Fluoroacetic acid
UN2643	Methyl bromoacetate
UN2644	Methyl iodide
UN2645	Phenacyl bromide
UN2646	Hexachlorocyclopentadiene
UN2647	Malononitrile
UN2648	1,2-Dibromobutan-3-one
UN2649	1,3-Dichloroacetone
UN2650	1,1-Dichloro-1-nitroethane
UN2651	4,4'-Diaminodiphenyl methane

UN2653	Benzyl iodide
UN2655	Potassium fluorosilicate
UN2656	Quinoline
UN2657	Selenium disulfide
UN2659	Sodium chloroacetate
UN2660	Nitrotoluidines (mono)
UN2661	Hexachloroacetone
UN2664	Dibromomethane
UN2667	Butyltoluenes
UN2668	Chloroacetone nitrile
UN2669	Chlorocresols solution
UN2670	Cyanuric chloride
UN2671	Aminopyridines (o-; m-; p-)
UN2672	Ammonia solutions
UN2673	2-Amino-4-chlorophenol
UN2674	Sodium fluorosilicate
UN2676	Stibine
UN2677	Rubidium hydroxide solution
UN2678	Rubidium hydroxide
UN2679	Lithium hydroxide, solution
UN2680	Lithium hydroxide
UN2681	Caesium hydroxide solution
UN2682	Caesium hydroxide
UN2683	Ammonium sulfide solution
UN2684	3-Diethylamino-propylamine
UN2685	N,N-Diethylethylenediamine
UN2686	2-Diethylaminoethanol
UN2687	Dicyclohexylammonium nitrite
UN2688	1-Bromo-3-chloropropane
UN2689	Glycerol alpha-monochlorohydrin
UN2690	N-n-Butyl imidazole
UN2691	Phosphorus pentabromide
UN2692	Boron tribromide
UN2693	Bisulfites, aqueous solutions, n.o.s.
UN2698	Tetrahydrophthalic anhydrides
UN2699	Trifluoroacetic acid
UN2705	1-Pentol
UN2707	Dimethyldioxanes
UN2709	Butyl benzenes
UN2710	Dipropyl ketone
UN2713	Acridine
UN2714	Zinc resinate
UN2715	Aluminum resinate
UN2716	1,4-Butynediol
UN2717	Camphor
UN2719	Barium bromate
UN2720	Chromium nitrate
UN2721	Copper chlorate
UN2722	Lithium nitrate
UN2723	Magnesium chlorate
UN2724	Manganese nitrate
UN2725	Nickel nitrate
UN2726	Nickel nitrite
UN2727	Thallium nitrate
UN2728	Zirconium nitrate
UN2729	Hexachlorobenzene
UN2730	Nitroanisole, liquid
UN2732	Nitrobromobenzenes, liquid
UN2733	Amines, flammable, corrosive, n.o.s. or Polyamines, flammable, corrosive, n.o.s.
UN2734	Amines, liquid, corrosive, flammable, n.o.s. or Polyamines, liquid, corrosive, flammable, n.o.s.

UN2735	Amines, liquid, corrosive, n.o.s. or Polyamines, liquid, corrosive, n.o.s.
UN2738	N-Butylaniline
UN2739	Butyric anhydride
UN2740	n-Propyl chloroformate
UN2741	Barium hypochlorite
UN2742	Chloroformates, toxic, corrosive, flammable, n.o.s.
UN2743	n-Butyl chloroformate
UN2744	Cyclobutyl chloroformate
UN2745	Chloromethyl chloroformate
UN2746	Phenyl chloroformate
UN2747	tert-Butylcyclohexylchloroformate
UN2748	2-Ethylhexyl chloroformate
UN2749	Tetramethylsilane
UN2750	1,3-Dichloropropanol-2
UN2751	Diethylthiophosphoryl chloride
UN2752	1,2-Epoxy-3-ethoxypropane
UN2753	N-Ethylbenzyltoluidines liquid
UN2754	N-Ethyltoluidines
UN2757	Carbamate pesticides, solid, toxic
UN2758	Carbamate pesticides, liquid, flammable, toxic
UN2759	Arsenical pesticides, solid, toxic
UN2760	Arsenical pesticides, liquid, flammable, toxic
UN2761	Organochlorine pesticides, solid toxic
UN2762	Organochlorine pesticides liquid, flammable, toxic
UN2763	Triazine pesticides, solid, toxic
UN2764	Triazine pesticides, liquid, flammable, toxic
UN2771	Thiocarbamate pesticides, solid, toxic
UN2772	Thiocarbamate pesticide, liquid, flammable, toxic
UN2775	Copper based pesticides, solid, toxic
UN2776	Copper based pesticides, liquid, flammable, toxic
UN2777	Mercury based pesticides, solid, toxic
UN2778	Mercury based pesticides, liquid, flammable, toxic
UN2779	Substituted nitrophenol pesticides, solid, toxic
UN2780	Substituted nitrophenol pesticides, liquid, flammable, toxic
UN2781	Bipyridilium pesticides, solid, toxic
UN2782	Bipyridilium pesticides, liquid, flammable, toxic
UN2783	Organophosphorus pesticides, solid, toxic
UN2784	Organophosphorus pesticides, liquid, flammable, toxic
UN2785	4-Thiapentanal
UN2786	Organotin pesticides, solid, toxic
UN2787	Organotin pesticides, liquid, flammable, toxic
UN2788	Organotin compounds, liquid, n.o.s.
UN2789	Acetic acid, glacial or Acetic acid solution
UN2790	Acetic acid solution
UN2793	Ferrous metal borings or Ferrous

	metal shavings or Ferrous metal turnings or Ferrous metal cuttings
UN2794	Batteries, wet, filled with acid
UN2795	Batteries, wet, filled with alkali
UN2796	Battery fluid, acid
UN2796	Sulfuric acid
UN2797	Battery fluid, alkali
UN2798	Phenyl phosphorus dichloride
UN2799	Phenyl phosphorus thiodichloride
UN2800	Batteries, wet, non-spillable
UN2801	Dyes, liquid, corrosive n.o.s. or Dye intermediates, liquid, n.o.s.
UN2802	Copper chloride
UN2803	Gallium
UN2805	Lithium hydride, fused solid
UN2806	Lithium nitride
UN2809	Mercury
UN2810	Toxic, liquids, organic, n.o.s.
UN2811	Toxic solids, organic, n.o.s.
UN2812	Sodium aluminate, solid
UN2813	Water-reactive solid, n.o.s.
UN2814	Infectious substances, affecting humans
UN2815	N-Aminoethylpiperazine
UN2817	Ammonium hydrogendifluoride, solution
UN2818	Ammonium polysulfide, solution
UN2819	Amyl acid phosphate
UN2820	Butyric acid
UN2821	Phenol solutions
UN2822	2-Chloropyridine
UN2823	Crotonic acid
UN2826	Ethyl chlorothioformate
UN2829	Caproic acid
UN2830	Lithium ferrosilicon
UN2831	1,1,1-Trichloroethane
UN2834	Phosphorous acid
UN2835	Sodium aluminum hydride
UN2837	Bisulfate, aqueous solution
UN2838	Vinyl butyrate, stabilized
UN2839	Aldol
UN2840	Butyraldoxime
UN2841	Di-n-amylamine
UN2842	Nitroethane
UN2844	Calcium manganese silicon
UN2845	Pyrophoric liquids, organic, n.o.s.
UN2846	Pyrophoric solids, organic, n.o.s.
UN2849	3-Chloropropanol-1
UN2850	Propylene tetramer
UN2851	Boron trifluoride dihydrate
UN2852	Dipicryl sulfide, wetted
UN2853	Magnesium fluorosilicate
UN2854	Ammonium fluorosilicate
UN2855	Zinc fluorosilicate
UN2856	Fluorosilicates, n.o.s.
UN2857	Refrigerating machines
UN2858	Zirconium, dry
UN2859	Ammonium metavanadate
UN2861	Ammonium polyvanadate
UN2862	Vanadium pentoxide
UN2863	Sodium ammonium vanadate
UN2864	Potassium metavanadate
UN2865	Hydroxylamine sulfate
UN2869	Titanium trichloride mixtures
UN2870	Aluminum borohydride or Aluminum borohydride in devices
UN2871	Antimony powder

UN2872	Dibromochloropropane
UN2873	Dibutylaminoethanol
UN2874	Furfuryl alcohol
UN2875	Hexachlorophene
UN2876	Resorcinol
UN2878	Titanium sponge granules or Titanium sponge powders
UN2879	Selenium oxychloride
UN2880	Calcium hypochlorite, hydrated or Calcium hypochlorite, hydrated mixtures
UN2881	Metal catalyst, dry
UN2900	Infectious substances, affecting animals
UN2901	Bromine chloride
UN2902	Pesticides, liquid, toxic, n.o.s.
UN2903	Pesticides, liquid, toxic, flammable, n.o.s.
UN2904	Chlorophenolates, liquid or Phenolates, liquid
UN2905	Chlorophenolates, solid or Phenolates, solid
UN2907	Isosorbide dinitrate mixture
UN2908	Radioactive material, excepted package-empty packaging
UN2909	Radioactive material, excepted package-articles manufactured from natural uranium or depleted uranium or natural thorium
UN2910	Radioactive material, excepted package-limited quantity of material
UN2911	Radioactive material, excepted package-instruments or articles
UN2912	Radioactive material, low specific activity (LSA-I).
UN2913	Radioactive material, surface contaminated objects (SCO-I or SCO-II)
UN2915	Radioactive material, Type A package
UN2916	Radioactive material, Type B(U) package
UN2917	Radioactive material, Type B(M) package
UN2919	Radioactive material, transported under special arrangement
UN2920	Corrosive liquids, flammable, n.o.s.
UN2921	Corrosive solids, flammable, n.o.s.
UN2922	Corrosive liquids, toxic, n.o.s.
UN2923	Corrosive solids, toxic, n.o.s.
UN2924	Flammable liquids, corrosive, n.o.s.
UN2925	Flammable solids, corrosive, organic, n.o.s.
UN2926	Flammable solids, toxic, organic, n.o.s.
UN2927	Toxic liquids, corrosive, organic, n.o.s.
UN2928	Toxic solids, corrosive, organic, n.o.s.
UN2929	Toxic liquids, flammable, organic, n.o.s.
UN2930	Toxic solids, flammable, organic, n.o.s.
UN2931	Vanadyl sulfate
UN2933	Methyl 2-chloropropionate

UN2934	Isopropyl 2-chloropropionate
UN2935	Ethyl 2-chloropropionate
UN2936	Thiolactic acid
UN2937	alpha-Methylbenzyl alcohol, liquid
UN2940	9-Phosphabicyclononanes or Cyclooctadiene phosphines
UN2941	Fluoroanilines
UN2942	2-Trifluoromethylaniline
UN2943	Tetrahydrofurfurylamine
UN2945	N-Methylbutylamine
UN2946	2-Amino-5-diethylaminopentane
UN2947	Isopropyl chloroacetate
UN2948	3-Trifluoromethylaniline
UN2949	Sodium hydrosulfide
UN2950	Magnesium granules, coated
UN2956	5-tert-Butyl-2,4,6-trinitro-m-xylene or Musk xylene
UN2965	Boron trifluoride dimethyl etherate
UN2966	Thioglycol
UN2967	Sulfamic acid
UN2968	Maneb stabilized or Maneb preparations, stabilized
UN2969	Castor beans or Castor meal or Castor pomace or Castor flake
UN2977	Radioactive material, uranium hexafluoride, fissile
UN2978	Radioactive material, uranium hexafluoride
UN2983	Ethylene oxide and propylene oxide mixtures
UN2984	Hydrogen peroxide, aqueous solutions
UN2985	Chlorosilanes, flammable, corrosive, n.o.s.
UN2987	Chlorosilanes, corrosive, n.o.s.
UN2988	Chlorosilanes, water-reactive, flammable, corrosive, n.o.s.
UN2989	Lead phosphite, dibasic
UN2990	Life-saving appliances, self inflating
UN2991	Carbamate pesticides, liquid, toxic, flammable
UN2992	Carbamate pesticides, liquid, toxic
UN2993	Arsenical pesticides, liquid, toxic, flammable
UN2994	Arsenical pesticides, liquid, toxic
UN2995	Organochlorine pesticides, liquid, toxic, flammable
UN2996	Organochlorine pesticides, liquid, toxic
UN2997	Triazine pesticides, liquid, toxic, flammable
UN2998	Triazine pesticides, liquid, toxic
UN3002	Phenyl urea pesticides, liquid, toxic
UN3005	Thiocarbamate pesticide, liquid, toxic, flammable
UN3006	Thiocarbamate pesticide, liquid, toxic
UN3009	Copper based pesticides, liquid, toxic, flammable
UN3010	Copper based pesticides, liquid, toxic
UN3011	Mercury based pesticides, liquid, toxic, flammable
UN3012	Mercury based pesticides, liquid, toxic

UN3013	Substituted nitrophenol pesticides, liquid, toxic, flammable
UN3014	Substituted nitrophenol pesticides, liquid, toxic
UN3015	Bipyridilium pesticides, liquid, toxic, flammable
UN3016	Bipyridilium pesticides, liquid, toxic
UN3016	Bipyridilium pesticides, liquid, flammable, toxic
UN3017	Organophosphorus pesticides, liquid, toxic, flammable
UN3018	Organophosphorus pesticides, liquid, toxic
UN3019	Organotin pesticides, liquid, toxic, flammable
UN3020	Organotin pesticides, liquid, toxic
UN3021	Pesticides, liquid, flammable, toxic
UN3022	1,2-Butylene oxide, stabilized
UN3023	2-Methyl-2-heptanethiol
UN3024	Coumarin derivative pesticides, liquid, flammable, toxic
UN3025	Coumarin derivative pesticides, liquid, toxic, flammable
UN3026	Coumarin derivative pesticides, liquid, toxic
UN3027	Coumarin derivative pesticides, solid, toxic
UN3028	Batteries, dry, containing potassium hydroxide solid
UN3048	Aluminum phosphide pesticides
UN3051	Aluminum alkyls
UN3052	Aluminum alkyl halides, liquid
UN3053	Magnesium alkyls
UN3054	Cyclohexyl mercaptan
UN3055	2-(2-Aminoethoxy) ethanol
UN3056	n-Heptaldehyde
UN3057	Trifluoroacetyl chloride
UN3064	Nitroglycerin, solution in alcohol
UN3065	Alcoholic beverages
UN3066	Paint or Paint related material
UN3070	Ethylene oxide and dichlorodifluoromethane mixture
UN3071	Mercaptans, liquid, toxic, flammable, n.o.s. or Mercaptan mixtures, liquid, toxic, flammable, n.o.s.
UN3072	Life-saving appliances, not self inflating
UN3073	Vinylpyridines, stabilized
UN3076	Aluminum alkyl hydrides
UN3077	Environmentally hazardous substances, solid, n.o.s.
UN3078	Cerium
UN3079	Methacrylonitrile, stabilized
UN3080	Isocyanates, toxic, flammable, n.o.s. or Isocyanate solutions, toxic, flammable, n.o.s.
UN3082	Environmentally hazardous substances, liquid, n.o.s.
UN3083	Perchloryl fluoride
UN3084	Corrosive solids, oxidizing, n.o.s.
UN3085	Oxidizing solid, corrosive, n.o.s.
UN3086	Toxic solids, oxidizing, n.o.s.
UN3087	Oxidizing solid, toxic, n.o.s.
UN3088	Self-heating, solid, organic, n.o.s.
UN3089	Metal powders, flammable, n.o.s.
UN3090	Lithium battery

UN3091	Lithium batteries, contained in equipment
UN3091	Lithium batteries packed with equipment
UN3092	1-Methoxy-2-propanol
UN3093	Corrosive liquids, oxidizing, n.o.s.
UN3094	Corrosive liquids, water-reactive, n.o.s.
UN3095	Corrosive solids, self-heating, n.o.s.
UN3096	Corrosive solids, water-reactive, n.o.s.
UN3097	Flammable solid, oxidizing, n.o.s.
UN3098	Oxidizing liquid, corrosive, n.o.s.
UN3099	Oxidizing liquid, toxic, n.o.s.
UN3100	Oxidizing solid, self-heating, n.o.s.
UN3101	Organic peroxide type B, liquid
UN3102	Organic peroxide type B, solid
UN3103	Organic peroxide type C, liquid
UN3104	Organic peroxide type C, solid
UN3105	Organic peroxide type D, liquid
UN3106	Organic peroxide type D, solid
UN3107	Organic peroxide type E, liquid
UN3108	Organic peroxide type E, solid
UN3109	Organic peroxide type F, liquid
UN3110	Organic peroxide type F, solid
UN3111	Organic peroxide type B, liquid, temperature controlled
UN3112	Organic peroxide type B, solid, temperature controlled
UN3113	Organic peroxide type C, liquid, temperature controlled
UN3114	Organic peroxide type C, solid, temperature controlled
UN3115	Organic peroxide type D, liquid, temperature controlled
UN3116	Organic peroxide type D, solid, temperature controlled
UN3117	Organic peroxide type E, liquid, temperature controlled
UN3118	Organic peroxide type E, solid, temperature controlled
UN3119	Organic peroxide type F, liquid, temperature controlled
UN3120	Organic peroxide type F, solid, temperature controlled
UN3121	Oxidizing solid, water-reactive, n.o.s.
UN3122	Toxic liquids, oxidizing, n.o.s.
UN3123	Toxic liquids, water-reactive, n.o.s.
UN3124	Toxic solids, self-heating, n.o.s.
UN3125	Toxic solids, water-reactive, n.o.s.
UN3126	Self-heating, solid, corrosive, organic, n.o.s.
UN3127	Self-heating, solid, oxidizing, n.o.s.
UN3128	Self-heating, solid, toxic, organic, n.o.s.
UN3129	Water-reactive liquid, corrosive, n.o.s.
UN3130	Water-reactive liquid, toxic, n.o.s.
UN3131	Water-reactive solid, corrosive, n.o.s.
UN3132	Water-reactive solid, flammable, n.o.s.
UN3133	Water-reactive solid, oxidizing, n.o.s.
UN3134	Water-reactive solid, toxic, n.o.s.

UN3135	Water-reactive solid, self-heating, n.o.s.
UN3136	Trifluoromethane, refrigerated liquid
UN3137	Oxidizing solid, flammable, n.o.s.
UN3138	Ethylene, acetylene and propylene mixtures, refrigerated liquid
UN3139	Oxidizing liquid, n.o.s.
UN3140	Alkaloids, liquid, n.o.s. or Alkaloid salts, liquid, n.o.s.
UN3141	Antimony compounds, inorganic, liquid, n.o.s.
UN3142	Disinfectants, liquid, toxic, n.o.s.
UN3143	Dyes, solid, toxic, n.o.s. or Dye intermediates, solid, toxic, n.o.s.
UN3144	Nicotine compounds, liquid, n.o.s. or Nicotine preparations, liquid, n.o.s.
UN3145	Alkylphenols, liquid, n.o.s.
UN3146	Organotin compounds, solid, n.o.s.
UN3147	Dyes, solid, corrosive, n.o.s. or Dye intermediates, solid, corrosive, n.o.s.
UN3148	Water-reactive liquid, n.o.s.
UN3149	Hydrogen peroxide and peroxyacetic acid mixtures, stabilized
UN3150	Devices, small, hydrocarbon gas powered or Hydrocarbon gas refills for small devices
UN3151	Polyhalogenated biphenyls, liquid or Polyhalogenated terphenyls liquid
UN3152	Polyhalogenated biphenyls, solid or Polyhalogenated terphenyls, solid
UN3153	Perfluoro (methyl vinyl ether)
UN3154	Perfluoro (ethyl vinyl ether)
UN3155	Pentachlorophenol
UN3156	Compressed gas, oxidizing, n.o.s.
UN3157	Liquefied gas, oxidizing, n.o.s.
UN3158	Gas, refrigerated liquid, n.o.s.
UN3159	1,1,1,2-Tetrafluoroethane or Refrigerant gas R 134a
UN3160	Liquefied gas, toxic, flammable, n.o.s.
UN3161	Liquefied gas, flammable, n.o.s.
UN3162	Liquefied gas, toxic, n.o.s.
UN3163	Liquefied gas, n.o.s.
UN3164	Articles, pressurized pneumatic or Hydraulic
UN3165	Aircraft hydraulic power unit fuel tank
UN3166	Engines, internal combustion
UN3166	Vehicle, flammable liquid powered
UN3166	Vehicle, flammable gas powered
UN3167	Gas sample, non-pressurized, flammable, n.o.s.
UN3168	Gas sample, non-pressurized, toxic, flammable, n.o.s.
UN3169	Gas sample, non-pressurized, toxic, n.o.s.
UN3170	Aluminum smelting by-products or Aluminum remelting by-products
UN3171	Battery-powered vehicle or Battery-powered equipment
UN3172	Toxins, extracted from living sources, liquid, n.o.s.

UN3174	Titanium disulphide
UN3175	Solids containing flammable liquid, n.o.s.
UN3176	Flammable solid, organic, molten, n.o.s.
UN3178	Flammable solid, inorganic, n.o.s.
UN3179	Flammable solid, toxic, inorganic, n.o.s.
UN3180	Flammable solid, corrosive, inorganic, n.o.s.
UN3181	Metal salts of organic compounds, flammable, n.o.s.
UN3182	Metal hydrides, flammable, n.o.s.
UN3183	Self-heating liquid, organic, n.o.s.
UN3184	Self-heating liquid, toxic, organic, n.o.s.
UN3185	Self-heating liquid, corrosive, organic, n.o.s.
UN3186	Self-heating liquid, inorganic, n.o.s.
UN3187	Self-heating liquid, toxic, inorganic, n.o.s.
UN3188	Self-heating liquid, corrosive, inorganic, n.o.s.
UN3189	Metal powder, self-heating, n.o.s.
UN3190	Self-heating solid, inorganic, n.o.s.
UN3191	Self-heating solid, toxic, inorganic, n.o.s.
UN3192	Self-heating solid, corrosive, inorganic, n.o.s.
UN3194	Pyrophoric liquid, inorganic, n.o.s.
UN3200	Pyrophoric solid, inorganic, n.o.s.
UN3205	Alkaline earth metal alcoholates, n.o.s.
UN3206	Alkali metal alcoholates, self-heating, corrosive, n.o.s.
UN3208	Metallic substance, water-reactive, n.o.s.
UN3209	Metallic substance, water-reactive, self-heating, n.o.s.
UN3210	Chlorates, inorganic, aqueous solution, n.o.s.
UN3211	Perchlorates, inorganic, aqueous solution, n.o.s.
UN3212	Hypochlorites, inorganic, n.o.s.
UN3213	Bromates, inorganic, aqueous solution, n.o.s.
UN3214	Permanganates, inorganic, aqueous solution, n.o.s.
UN3215	Persulfates, inorganic, n.o.s.
UN3216	Persulfates, inorganic, aqueous solution, n.o.s.
UN3218	Nitrates, inorganic, aqueous solution, n.o.s.
UN3219	Nitrites, inorganic, aqueous solution, n.o.s.
UN3220	Pentafluoroethane or Refrigerant gas R 125
UN3221	Self-reactive liquid type B
UN3222	Self-reactive solid type B
UN3223	Self-reactive liquid type C
UN3224	Self-reactive solid type C
UN3225	Self-reactive liquid type D
UN3226	Self-reactive solid type D
UN3227	Self-reactive liquid type E
UN3228	Self-reactive solid type E
UN3229	Self-reactive liquid type F

UN3230	Self-reactive solid type F
UN3231	Self-reactive liquid type B, temperature controlled
UN3232	Self-reactive solid type B, temperature controlled
UN3233	Self-reactive liquid type C, temperature controlled
UN3234	Self-reactive solid type C, temperature controlled
UN3235	Self-reactive liquid type D, temperature controlled
UN3236	Self-reactive solid type D, temperature controlled
UN3237	Self-reactive liquid type E, temperature controlled
UN3238	Self-reactive solid type E, temperature controlled
UN3239	Self-reactive liquid type F, temperature controlled
UN3240	Self-reactive solid type F, temperature controlled
UN3241	2-Bromo-2-nitropropane-1,3-diol
UN3242	Azodicarbonamide
UN3243	Solids containing toxic liquid, n.o.s.
UN3244	Solids containing corrosive liquid, n.o.s.
UN3246	Methanesulfonyl chloride
UN3247	Sodium peroxoborate, anhydrous
UN3248	Medicine, liquid, flammable, toxic, n.o.s.
UN3249	Medicine, solid, toxic, n.o.s.
UN3250	Chloroacetic acid, molten
UN3251	Isosorbide-5-mononitrate
UN3252	Difluoromethane or Refrigerant gas R 32
UN3253	Disodium trioxosilicate
UN3254	Tributylphosphane
UN3255	tert-Butyl hypochlorite
UN3256	Elevated temperature liquid, flammable, n.o.s.
UN3257	Elevated temperature liquid, n.o.s.
UN3258	Elevated temperature solid, n.o.s.
UN3259	Amines, solid, corrosive, n.o.s. or Polyamines, solid, corrosive n.o.s.
UN3260	Corrosive solid, acidic, inorganic, n.o.s.
UN3261	Corrosive solid, acidic, organic, n.o.s.
UN3262	Corrosive solid, basic, inorganic, n.o.s.
UN3263	Corrosive solid, basic, organic, n.o.s.
UN3264	Corrosive liquid, acidic, inorganic, n.o.s.
UN3265	Corrosive liquid, acidic, organic, n.o.s.
UN3266	Corrosive liquid, basic, inorganic, n.o.s.
UN3267	Corrosive liquid, basic, organic, n.o.s.
UN3268	Air bag inflators or Air bag modules or Seat-belt pretensioners
UN3269	Polyester resin kit
UN3270	Nitrocellulose membrane filters
UN3271	Ethers, n.o.s.
UN3272	Esters, n.o.s.
UN3273	Nitriles, flammable, toxic, n.o.s.

UN3274	Alcoholates solution, n.o.s.
UN3275	Nitriles, toxic, flammable, n.o.s.
UN3276	Nitriles, toxic, n.o.s.
UN3277	Chloroformates, toxic, corrosive, n.o.s.
UN3278	Organophosphorus compound, toxic, liquid n.o.s.
UN3279	Organophosphorus compound, toxic, flammable, n.o.s.
UN3280	Organoarsenic compound, liquid n.o.s.
UN3281	Metal carbonyls, n.o.s.
UN3282	Organometallic compound, toxic liquid n.o.s.
UN3283	Selenium compound, solid, n.o.s.
UN3284	Tellurium compound, n.o.s.
UN3285	Vanadium compound, n.o.s.
UN3286	Flammable liquid, toxic, corrosive, n.o.s.
UN3287	Toxic liquid, inorganic, n.o.s.
UN3288	Toxic solid, inorganic, n.o.s.
UN3289	Toxic liquid, corrosive, inorganic, n.o.s.
UN3290	Toxic solid, corrosive, inorganic, n.o.s.
UN3291	Regulated medical waste n.o.s.
UN3292	Batteries, containing sodium
UN3292	Cells, containing sodium
UN3293	Hydrazine, aqueous solution
UN3294	Hydrogen cyanide, solution in alcohol
UN3295	Hydrocarbons, liquid, n.o.s.
UN3296	Heptafluoropropane or Refrigerant gas R 227
UN3297	Ethylene oxide and chlorotetrafluoroethane mixture
UN3298	Ethylene oxide and pentafluoroethane mixture
UN3299	Ethylene oxide and tetrafluoroethane mixture
UN3300	Ethylene oxide and carbon dioxide mixture
UN3301	Corrosive liquid, self-heating, n.o.s.
UN3302	2-Dimethylaminoethyl acrylate
UN3303	Compressed gas, toxic, oxidizing, n.o.s.
UN3304	Compressed gas, toxic, corrosive, n.o.s.
UN3305	Compressed gas, toxic, flammable, corrosive, n.o.s.
UN3306	Compressed gas, toxic, oxidizing, corrosive, n.o.s.
UN3307	Liquefied gas, toxic, oxidizing, n.o.s.
UN3308	Liquefied gas, toxic, corrosive, n.o.s.
UN3309	Liquefied gas, toxic, flammable, corrosive, n.o.s.
UN3310	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.
UN3311	Gas, refrigerated liquid, oxidizing, n.o.s.
UN3312	Gas, refrigerated liquid, flammable, n.o.s.
UN3313	Organic pigments, self-heating
UN3314	Plastic molding compound
UN3316	Chemical kits or First aid kits

UN3317	2-Amino-4,6-Dinitrophenol, wetted
UN3318	Ammonia, solution
UN3319	Nitroglycerin mixture desensitized, solid, n.o.s.
UN3320	Sodium borohydride and sodium hydroxide solution
UN3321	Radioactive material, low specific activity (LSA-II)
UN3322	Radioactive material, low specific activity (LSA-III)
UN3327	Radioactive material, Type A package, fissile
UN3328	Radioactive material, Type B(U) package, fissile
UN3329	Radioactive material, Type B(M) package, fissile
UN3331	Radioactive material, transported under special arrangement, fissile
UN3332	Radioactive material, Type A package, special form
UN3333	Radioactive material, Type A package, special form, fissile
UN3334	Aviation regulated liquid, n.o.s.
UN3335	Aviation regulated solid, n.o.s.
UN3336	Mercaptans, liquid, flammable, n.o.s. or Mercaptan mixtures, liquid, flammable, n.o.s.
UN3337	Refrigerant gas R 404A
UN3338	Refrigerant gas R 407A
UN3339	Refrigerant gas R 407B
UN3340	Refrigerant gas R 407C
UN3341	Thiourea dioxide
UN3342	Xanthates
UN3343	Nitroglycerin mixture desensitized, liquid, flammable, n.o.s.
UN3344	Pentaerythrite tetranitrate mixture, desensitized, solid, n.o.s.
UN3345	Phenoxyacetic acid derivative pesticide, solid, toxic
UN3346	Phenoxyacetic acid derivative pesticide, liquid, flammable, toxic
UN3347	Phenoxyacetic acid derivative pesticide, liquid, toxic, flammable
UN3348	Phenoxyacetic acid derivative pesticide, liquid, toxic
UN3349	Pyrethroid pesticide, solid, toxic
UN3350	Pyrethroid pesticide, liquid, flammable, toxic
UN3351	Pyrethroid pesticide, liquid, flammable, toxic
UN3352	Pyrethroid pesticide, liquid, toxic
UN3354	Insecticide gases, flammable, n.o.s.
UN3355	Insecticide gases, toxic, flammable, n.o.s.
UN3356	Oxygen generator chemical
UN3357	Nitroglycerin mixture, desensitized, liquid n.o.s.
UN3358	Refrigerating machines
UN3360	Fibers, vegetable
UN3361	Chlorosilanes, toxic, corrosive, n.o.s.
UN3362	Chlorosilanes, toxic, corrosive, flammable, n.o.s.
UN3363	Dangerous Goods in Machinery or Dangerous Goods in Apparatus
UN3364	Trinitrophenol (picric acid), wetted

UN3365	Trinitrobenzene (picryl chloride), wetted
UN3366	Trinitrotoluene (TNT), wetted
UN3367	Trinitrobenzene, wetted
UN3368	Trinitrobenzoic acid, wetted
UN3369	Sodium dinitro-o-cresolate, wetted
UN3370	Urea nitrate, wetted
UN3371	2-Methylbutanal
UN3373	Biological substance, Category B
UN3375	Ammonium nitrate emulsion or Ammonium nitrate suspension or Ammonium nitrate gel
UN3377	Sodium perborate monohydrate
UN3378	Sodium carbonate peroxyhydrate
UN3379	Desensitized explosive, liquid, n.o.s.
UN3380	Desensitized explosive, solid, n.o.s.
UN3381	Toxic by inhalation liquid, n.o.s.
UN3382	Toxic by inhalation liquid, n.o.s.
UN3383	Toxic by inhalation liquid, flammable, n.o.s.
UN3384	Toxic by inhalation liquid, flammable, n.o.s.
UN3385	Toxic by inhalation liquid, water-reactive, n.o.s.
UN3386	Toxic by inhalation liquid, water-reactive, n.o.s.
UN3387	Toxic by inhalation liquid, oxidizing, n.o.s.
UN3388	Toxic by inhalation liquid, oxidizing, n.o.s.
UN3389	Toxic by inhalation liquid, corrosive, n.o.s.
UN3390	Toxic by inhalation liquid, corrosive, n.o.s.
UN3391	Organometallic substance, solid, pyrophoric
UN3392	Organometallic substance, liquid, pyrophoric
UN3393	Organometallic substance, solid, pyrophoric, water-reactive
UN3394	Organometallic substance, liquid, pyrophoric, water-reactive
UN3395	Organometallic substance, solid, water-reactive
UN3396	Organometallic substance, solid, water-reactive, flammable
UN3397	Organometallic substance, solid, water-reactive, self-heating
UN3398	Organometallic substance, liquid, water-reactive
UN3399	Organometallic substance, liquid, water-reactive, flammable
UN3400	Organometallic substance, solid, self-heating
UN3401	Alkali metal amalgam, solid
UN3402	Alkaline earth metals amalgams, solid
UN3403	Potassium, metal alloys, solid
UN3404	Potassium sodium alloys, solid
UN3405	Barium chlorate, solution
UN3406	Barium perchlorate, solution
UN3407	Chlorate and magnesium chloride mixture solution
UN3408	Lead perchlorate, solution
UN3409	Chloronitrobenzene, liquid

UN3410	4-Chloro-o-toluidine hydrochloride, solution
UN3411	beta-Naphthylamine solution
UN3412	Formic acid
UN3413	Potassium cyanide solution
UN3414	Sodium cyanide solution
UN3415	Sodium fluoride solution
UN3416	Chloroacetophenone, liquid
UN3417	Xylyl bromide, solid
UN3418	2, 4-Toluylenediamine solution or 2, 4-Toluenediamine solution
UN3419	Boron trifluoride acetic acid complex, solid
UN3420	Boron trifluoride propionic acid complex, solid
UN3421	Potassium hydrogendifluoride solution
UN3422	Potassium fluoride solution
UN3423	Tetramethylammonium hydroxide, solid
UN3424	Ammonium dinitro-o-cresolate solution
UN3425	Bromoacetic acid, solid
UN3426	Acrylamide solution
UN3427	Chlorobenzyl chlorides, solid
UN3428	3-Chloro-4-methylphenyl isocyanate, solid
UN3429	Chlorotoluidines, liquid
UN3430	Xylenols, liquid
UN3431	Nitrobenzotrifluorides, solid
UN3432	Polychlorinated biphenyls, solid
UN3433	Lithium alkyls, solid
UN3434	Nitrocresols, liquid
UN3436	Hexafluoroacetone hydrate, solid
UN3437	Chlorocresols, solid
UN3438	alpha-Methylbenzyl alcohol, solid
UN3439	Nitriles, toxic, solid, n.o.s.
UN3440	Selenium compound, liquid, n.o.s.
UN3441	Chlorodinitro-benzenes, solid
UN3442	Dichloroanilines, solid
UN3443	Dinitrobenzenes, solid
UN3444	Nicotine hydrochloride, solid
UN3445	Nicotine sulphate, solid
UN3446	Nitrotoluenes, solid
UN3447	Nitroxylenes, solid
UN3448	Tear gas substance, solid, n.o.s.
UN3449	Bromobenzyl cyanides, solid
UN3450	Diphenyl-chloroarsine, solid
UN3451	Toluidines, solid
UN3452	Xylidines, solid
UN3453	Phosphoric acid, solid
UN3454	Dinitrotoluenes, solid
UN3455	Cresols, solid
UN3456	Nitrosylsulphuric acid, solid
UN3457	Chloronitrotoluenes, solid
UN3458	Nitroanisoles, solid
UN3459	Nitrobromobenzenes, solid
UN3460	N-Ethylbenzyltoluidines, solid
UN3461	Aluminium alkyl halides, solid
UN3462	Toxins, extracted from living source, solid, n.o.s.
UN3463	Propionic acid
UN3464	Organophosphorus compound, toxic, solid, n.o.s.
UN3465	Organoarsenic compound, solid, n.o.s.
UN3466	Metal carbonyls, solid, n.o.s.

UN3467	Organometallic compound, toxic, solid, n.o.s.
UN3468	Hydrogen in a metal hydride storage system
UN3469	Paint, flammable, corrosive
UN3470	Paint related material corrosive, flammable or Paint, corrosive, flammable
UN3471	Hydrogendifluoride solution, n.o.s.
UN3472	Crotonic acid
UN3473	Fuel cell cartridges or Fuel cell cartridges contained in equipment or Fuel cell cartridges packed with equipment, containing corrosive substances
UN3474	1-Hydroxybenzotriazole, anhydrous, wetted
UN3475	Ethanol and gasoline mixture or Ethanol and motor spirit mixture or Ethanol and petrol mixture
UN3476	Fuel cell cartridges or Fuel cell cartridges contained in equipment or Fuel cell cartridges packed with equipment, containing water-reactive substances
UN3477	Fuel cell cartridges or Fuel cell cartridges contained in equipment or Fuel cell cartridges packed with equipment, containing corrosive substances
UN3478	Fuel cell cartridges or Fuel cell cartridges contained in equipment or Fuel cell cartridges packed with equipment, containing liquefied flammable gas
UN3479	Fuel cell cartridges or Fuel cell cartridges contained in equipment or Fuel cell cartridges packed with equipment, containing hydrogen in metal hydride

How to Read the FedEx Ground Hazardous Materials Table

The FedEx Ground Hazardous Materials Table lists and classifies materials which the Department of Transportation has determined to be hazardous materials for the purposes of transportation and prescribes the requirements for shipping papers, packaging, marking, and the labeling of the hazardous materials.

The FedEx Ground Hazardous Materials Table is the focal point for determining the requirements applicable to the shipment of hazardous materials in accordance with DOT regulations and FedEx Ground requirements.

For each listed material, the Table identifies the hazard class or specifies that the material is forbidden in transportation, and gives the proper shipping name, or directs the user to the preferred shipping name. In addition, the Table specifies or references requirements in the Hazardous Materials Regulations pertaining to labeling and packaging of hazardous materials.

The FedEx Ground Hazardous Materials Table is a listing of hazardous materials which is made up of ten (10) columns:

- (1) Symbols
- (2) Hazardous Materials Descriptions and Proper Shipping Names
- (3) Hazard Class or Division
- (4) Identification Numbers
- (5) Packing Group
- (6) Label(s) Codes Required (if not exempted or excepted)
- (7) Special Provisions
- (8) Packaging Authorizations
 - (8A) Packaging Exceptions
 - (8B) Non-Bulk Packaging Requirements
- (9) FedEx Ground Restrictions

§ 172.101 Purpose and use of hazardous materials table.

The Hazardous Materials Table (Table) in this section designates the materials listed therein as hazardous materials for the purpose of transportation of those materials. For each listed material, the Table identifies the hazard class or specifies that the material is forbidden in transportation, and gives the proper shipping name or directs the user to the preferred proper shipping name. In addition, the Table specifies or references requirements in this subchapter pertaining to labeling, packaging, quantity limits aboard aircraft and stowage of hazardous materials aboard vessels.

Column 1: Symbols.

Column 1 of the Table contains six symbols (“+”, “A”, “D”, “G”, “I” and “W”) as follows:

(1) The plus (+) sign fixes the proper shipping name, hazard class and packing group for that entry without regard to whether the material meets the definition of that class, packing group or any other hazard class definition. When the plus sign is assigned to a proper shipping name in Column (1) of the §172.101 Table, it means that the material is known to pose a risk to humans. When a plus sign is assigned to mixtures or solutions containing a material where the hazard to humans is significantly different from that of the pure material or where no hazard to humans is posed, the material may be described using an alternative shipping name that represents the hazards posed by the material. An appropriate alternate proper shipping name and hazard class may be authorized by the Associate Administrator.

(2) The letter “A” denotes a material that is subject to the requirements of this subchapter only when offered or intended for transportation by aircraft, unless the material is a hazardous substance or a hazardous waste. A shipping description entry preceded by an “A” may be used to describe a material for other modes of transportation provided all applicable requirements for the entry are met.

(3) The letter “D” identifies proper shipping names which are appropriate for describing materials for domestic transportation but may be inappropriate for international transportation under the provisions of international regulations (e.g., IMO, ICAO). An alternate proper shipping name may be selected when either domestic or international transportation is involved.

(4) The letter “G” identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parentheses, in association with the basic description. (See §172.203(k).)

(5) The letter “I” identifies proper shipping names which are appropriate for describing materials in international transportation. An alternate proper shipping name may be selected when only domestic transportation is involved.

(6) The letter “W” denotes a material that is subject to the requirements of this subchapter only when offered or intended for transportation by vessel, unless the material is a hazardous substance or a hazardous waste. A shipping description entry preceded by a “W” may be used to describe a material for other modes of transportation provided all applicable requirements for the entry are met.

Column 2: Hazardous materials descriptions and proper shipping names.

Column 2 lists the hazardous materials descriptions and proper shipping names of materials designated as hazardous materials. Modification of a proper shipping name may otherwise be required or authorized by this section. Proper shipping names are limited to those shown in Roman type (not italics).

(1) Proper shipping names may be used in the singular or plural and in either capital or lower case letters. Words may be alternatively spelled in the same manner as they appear in the ICAO Technical Instructions or the IMDG Code. For example “aluminum” may be spelled “aluminium” and “sulfur” may be spelled “sulphur”. However, the word “inflammable” may not be used in place of the word “flammable”.

(2) Punctuation marks and words in italics are not part of the proper shipping name, but may be used in addition to the proper shipping name. The word “or” in italics indicates that terms in the sequence may be used as the proper shipping name, as appropriate.

(3) The word “poison” or “poisonous” may be used interchangeably with the word “toxic” when only domestic transportation is involved. The abbreviation “n.o.i.” or “n.o.i.b.n.” may be used interchangeably with “n.o.s.”.

(4) Except for hazardous wastes, when qualifying words are used as part of the proper shipping name, their sequence in the package markings and shipping paper description is optional. However, the entry in the Table reflects the preferred sequence.

(5) When one entry references another entry by use of the word “see”, if both names are in Roman type, either name may be used as the proper shipping name (e.g., Ethyl alcohol, see Ethanol).

(6) When a proper shipping name includes a concentration range as part of the shipping description, the actual concentration, if it is within the range stated, may be used in place of the concentration range. For example, an aqueous solution of hydrogen peroxide containing 30 percent peroxide may be described as “Hydrogen peroxide, aqueous solution with not less than 20 percent but not more than 40 percent hydrogen peroxide” or “Hydrogen peroxide, aqueous solution with 30 percent hydrogen peroxide”.

(7) Use of the prefix “mono” is optional in any shipping name, when appropriate. Thus, Iodine monochloride may be used interchangeably with Iodine chloride. In “Glycerol alpha-monochlorohydrin” the term “mono” is considered a prefix to the term “chlorohydrin” and may be deleted.

(8) Use of the word “liquid” or “solid”. The word “liquid” or “solid” may be added to a proper shipping name when a hazardous material specifically listed by name may, due to differing physical states, be a liquid or solid. When the packaging specified in Column 8 is inappropriate for the physical state of the material, the table provided in paragraph (i)(4) of this section should be used to determine the appropriate packaging section.

(9) Hazardous wastes. If the word “waste” is not included in the hazardous material description in Column 2 of the Table, the proper shipping name for a hazardous waste (as defined in §171.8 of this subchapter), shall include the word “Waste” preceding the proper shipping name of the material. For example: Waste acetone.

(10) Mixtures and solutions.

(i) A mixture or solution not identified specifically by name, comprised of a hazardous material identified in the Table by technical name and non-hazardous material, shall be described using the proper shipping name of the hazardous material and the qualifying word “mixture” or “solution”, as appropriate, unless—

(A) Except as provided in §172.101(i)(4) the packaging specified in Column 8 is inappropriate to the physical state of the material;

(B) The shipping description indicates that the proper shipping name applies only to the pure or technically pure hazardous material;

(C) The hazard class, packing group, or subsidiary hazard of the mixture or solution is different from that specified for the entry;

(D) There is a significant change in the measures to be taken in emergencies;

(E) The material is identified by special provision in Column 7 of the §172.101 Table as a material poisonous by inhalation; however, it no longer meets the definition of poisonous by inhalation or it falls within a different hazard zone than that specified in the special provision; or

(F) The material can be appropriately described by a shipping name that describes its intended application, such as “Coating solution”, “Extracts, flavoring” or “Compound, cleaning liquid”.

(ii) If one or more of the conditions specified in paragraph (c)(10)(i) of this section is satisfied, then a proper shipping name shall be selected as prescribed in paragraph (c)(12)(ii) of this section.

(iii) A mixture or solution not identified in the Table specifically by name, comprised of two or more hazardous materials in the same hazard class, shall be described using an appropriate shipping description (e.g., “Flammable liquid, n.o.s.”). The name that most appropriately describes the material shall be used; e.g., an alcohol not listed by its technical name in the Table shall be described as “Alcohol, n.o.s.” rather than “Flammable liquid, n.o.s.”. Some mixtures may be more appropriately described according to their application, such as “Coating solution” or “Extracts, flavoring liquid” rather than by an n.o.s. entry. Under the provisions of subparts C and D of this part, the technical names of at least two components most predominately contributing to the hazards of the mixture or solution may be required in association with the proper shipping name.

(11) Except for a material subject to or prohibited by §173.21, 173.54, 173.56(d), 173.56(e), 173.224(c) or 173.225(b) of this subchapter, a material that is considered to be a hazardous waste or a sample of a material for which the hazard class is uncertain and must be determined by testing may be assigned a tentative proper shipping name, hazard class, identification number and packing group, if applicable, based on the shipper's tentative determination according to:

(i) Defining criteria in this subchapter;

(ii) The hazard precedence prescribed in §173.2a of this subchapter;

(iii) The shipper's knowledge of the material;

(iv) In addition to paragraphs (c)(11)(i) through (iii) of this section, for a sample of a material other than a waste, the following must be met:

(A) Except when the word “Sample” already appears in the proper shipping name, the word “Sample” must appear as part of the proper shipping name or in association with the basic description on the shipping paper.

(B) When the proper shipping description for a sample is assigned a “G” in Column (1) of the §172.101 Table, and the primary constituent(s) for which the tentative classification is based are not known, the provisions requiring a technical name for the constituent(s) do not apply; and

(C) A sample must be transported in a combination packaging that conforms to the requirements of this subchapter that are applicable to the tentative packing group assigned, and may not exceed a net mass of 2.5 kg (5.5 pounds) per package.

(v) For the transportation of samples of self-reactive materials, organic peroxides, explosives or lighters, see §§173.224(c)(3), 173.225(c)(2), 173.56(d) or 173.308(b)(2) of this subchapter, respectively.

(12) Except when the proper shipping name in the Table is preceded by a plus (+)—

(i) If it is specifically determined that a material meets the definition of a hazard class, packing group or hazard zone, other than the class, packing group or hazard zone shown in association with the proper shipping name, or does not meet the defining criteria for a subsidiary hazard shown in Column 6 of the Table, the material shall be described by an appropriate proper shipping name listed in association with the correct hazard class, packing group, hazard zone, or subsidiary hazard for the material.

(ii) Generic or n.o.s. descriptions. If an appropriate technical name is not shown in the Table, selection of a proper shipping name shall be made from the generic or n.o.s. descriptions corresponding to the specific hazard class, packing group, hazard zone, or subsidiary hazard, if any, for the material. The name that most appropriately describes the material shall be used; e.g., an alcohol not listed by its technical name in the Table shall be described as “Alcohol, n.o.s.” rather than “Flammable liquid, n.o.s.”. Some mixtures may be more appropriately described according to their application, such as “Coating solution” or “Extracts, flavoring, liquid”, rather than by an n.o.s. entry, such as “Flammable liquid, n.o.s.” It should be noted, however, that an n.o.s. description as a proper shipping name may not provide sufficient information for shipping papers and package markings. Under the provisions of subparts C and D of this part, the technical name of one or more constituents which makes the product a hazardous material may be required in association with the proper shipping name.

(iii) Multiple hazard materials. If a material meets the definition of more than one hazard class, and is not identified in the Table specifically by name (e.g., acetyl chloride), the hazard class of the material shall be determined by using the precedence specified in §173.2a of this subchapter, and an appropriate shipping description (e.g., “Flammable liquid, corrosive n.o.s.”) shall be selected as described in paragraph (c)(12)(ii) of this section.

(iv) If it is specifically determined that a material is not a forbidden material and does not meet the definition of any hazard class, the material is not a hazardous material.

(13) Self-reactive materials and organic peroxides. A generic proper shipping name for a self-reactive material or an organic peroxide, as listed in Column 2

of the Table, must be selected based on the material's technical name and concentration, in accordance with the provisions of §§173.224 or 173.225 of this subchapter, respectively.

(14) A proper shipping name that describes all isomers of a material may be used to identify any isomer of that material if the isomer meets criteria for the same hazard class or division, subsidiary risk(s) and packing group, unless the isomer is specifically identified in the Table.

(15) Unless a hydrate is specifically listed in the Table, a proper shipping name for the equivalent anhydrous substance may be used, if the hydrate meets the same hazard class or division, subsidiary risk(s) and packing group.

(16) Unless it is already included in the proper shipping name in the §172.101 Table, the qualifying words "liquid" or "solid" may be added in association with the proper shipping name when a hazardous material specifically listed by name in the §172.101 Table may, due to the differing physical states of the various isomers of the material, be either a liquid or a solid (for example "Dinitrotoluenes, liquid" and "Dinitrotoluenes, solid"). Use of the words "liquid" or "solid" is subject to the limitations specified for the use of the words "mixture" or "solution" in paragraph (c)(10) of this section. The qualifying word "molten" may be added in association with the proper shipping name when a hazardous material, which is a solid in accordance with the definition in §171.8 of this subchapter, is offered for transportation in the molten state (for example, "Alkylphenols, solid, n.o.s., molten").

Column 3: Hazard class or Division.

Column 3 contains a designation of the hazard class or division corresponding to each proper shipping name, or the word "Forbidden".

(1) A material for which the entry in this column is "Forbidden" may not be offered for transportation or transported. This prohibition does not apply if the material is diluted, stabilized or incorporated in a device and it is classed in accordance with the definitions of hazardous materials contained in part 173 of this subchapter.

(2) When a reevaluation of test data or new data indicates a need to modify the "Forbidden" designation or the hazard class or packing group specified for a material specifically identified in the Table, this data should be submitted to the Associate Administrator.

(3) A basic description of each hazard class and the section reference for class definitions appear in §173.2 of this subchapter.

(4) Each reference to a Class 3 material is modified to read “Combustible liquid” when that material is reclassified in accordance with §173.150(e) or (f) of this subchapter or has a flash point above 60 °C (140 °F) but below 93 °C (200 °F).

Column 4: Identification number.

Column 4 lists the identification number assigned to each proper shipping name. Those preceded by the letters “UN” are associated with proper shipping names considered appropriate for international transportation as well as domestic transportation. Those preceded by the letters “NA” are associated with proper shipping names not recognized for international transportation, except to and from Canada. Identification numbers in the “NA9000” series are associated with proper shipping names not appropriately covered by international hazardous materials (dangerous goods) transportation standards, or not appropriately addressed by international transportation standards for emergency response information purposes, except for transportation between the United States and Canada.

Column 5: Packing group.

Column 5 specifies one or more packing groups assigned to a material corresponding to the proper shipping name and hazard class for that material. Class 2, Class 7, Division 6.2 (other than regulated medical wastes), and ORM-D materials, do not have packing groups. Packing Groups I, II and III indicate the degree of danger presented by the material is either great, medium or minor, respectively. If more than one packing group is indicated for an entry, the packing group for the hazardous material is determined using the criteria for assignment of packing groups specified in subpart D of part 173. When a reevaluation of test data or new data indicates a need to modify the specified packing group(s), the data should be submitted to the Associate Administrator. Each reference in this column to a material which is a hazardous waste or a hazardous substance, and whose proper shipping name is preceded in Column 1 of the Table by the letter “A” or “W”, is modified to read “III” on those occasions when the material is offered for transportation or transported by a mode in which its transportation is not otherwise subject to requirements of this subchapter.

Column 6: Labels.

Column 6 specifies codes which represent the hazard warning labels required for a package filled with a material conforming to the associated hazard class and proper shipping name, unless the package is otherwise excepted from labeling by a provision in subpart E of this part, or part 173 of this subchapter. The first code is indicative of the primary hazard of the material. Additional label codes are indicative of subsidiary hazards. Provisions in §172.402 may require that a label other than that specified in Column 6 be affixed to the package in addition to that

specified in Column 6. No label is required for a material classed as a combustible liquid or for a Class 3 material that is reclassified as a combustible liquid. For “Empty” label requirements, see §173.428 of this subchapter. The codes contained in Column 6 are defined according to the following table:

Label Substitution Table

Label code	Label name
1	Explosive
1.1 ¹	Explosive 1.1 ¹
1.2 ¹	Explosive 1.2 ¹
1.3 ¹	Explosive 1.3 ¹
1.4 ¹	Explosive 1.4 ¹
1.5 ¹	Explosive 1.5 ¹
1.6 ¹	Explosive 1.6 ¹
2.1	Flammable Gas
2.2	Non-Flammable Gas
2.3	Poison Gas
3	Flammable Liquid
4.1	Flammable Solid
4.2	Spontaneously Combustible
4.3	Dangerous When Wet
5.1	Oxidizer
5.2	Organic Peroxide
6.1 (inhalation hazard, Zone A or B)	Poison Inhalation Hazard
6.1 (other than inhalation hazard, Zone A or B) ²	Poison
6.2	Infectious substance
7	Radioactive
8	Corrosive
9	Class 9

¹Refers to the appropriate compatibility group letter.

²The packing group for a material is indicated in column 5 of the table.

Column 7: Special provisions.

Column 7 specifies codes for special provisions applicable to hazardous materials. When Column 7 refers to a special provision for a hazardous material, the meaning and requirements of that special provision are as set forth in §172.102 of this subpart.

Column 8: Packaging authorizations.

Columns 8A, 8B and 8C specify the applicable sections for exceptions, non-bulk packaging requirements and bulk packaging requirements, respectively, in part 173 of this subchapter. Columns 8A, 8B and 8C are completed in a manner which indicates that “§173.” precedes the designated numerical entry. For

example, the entry “202” in Column 8B associated with the proper shipping name “Gasoline” indicates that for this material conformance to non-bulk packaging requirements prescribed in §173.202 of this subchapter is required. When packaging requirements are specified, they are in addition to the standard requirements for all packagings prescribed in §173.24 of this subchapter and any other applicable requirements in subparts A and B of part 173 of this subchapter.

(1) Exceptions. Column 8A contains exceptions from some of the requirements of this subchapter. The referenced exceptions are in addition to those specified in subpart A of part 173 and elsewhere in this subchapter. A “None” in this column means no packaging exceptions are authorized, except as may be provided by special provisions in Column 7.

(2) Non-bulk packaging. Column 8B references the section in part 173 of this subchapter which prescribes packaging requirements for non-bulk packagings. A “None” in this column means non-bulk packagings are not authorized, except as may be provided by special provisions in Column 7. Each reference in this column to a material which is a hazardous waste or a hazardous substance, and whose proper shipping name is preceded in Column 1 of the Table by the letter “A” or “W”, is modified to include “§173.203” or “§173.213”, as appropriate for liquids and solids, respectively, on those occasions when the material is offered for transportation or transported by a mode in which its transportation is not otherwise subject to the requirements of this subchapter.

Column (9) FedEx Ground Restrictions

This column identifies FedEx Ground restrictions and additional comments. The following restrictions may apply:

- **Not Accepted by FedEx Ground:** This material has been determined by FedEx Ground to pose an unreasonable risk to our employees based on the hazard associated with the material. These materials are **Not Accepted by FedEx Ground**.
- **May not be regulated via highway:** This material may not be regulated for various reasons. The material may only be regulated via vessel or aircraft only. It is the shipper’s responsibility to determine if their material is not regulated via FedEx Ground. Please refer to applicable sections of the 49 CFR for all hazardous materials.
- **Accepted only when package under 49 CFR §173.320:** FedEx Ground will only accept the material when packaged and prepared in accordance with 49 CFR §173.320.
- **Accepted only when packaged under applicable Special Permit or 49**

CFR §173.13: FedEx Ground will only accept these materials when packaged and prepared under one of two types of packaging methods:

- 1) **Exception** -49 CFR §173.13: Materials may be packaged and prepared under the federal guidelines as stated in 49 CFR 173.13. FedEx Ground will know the shipper has complied with this packaging **exception** by marking the outer package as well as the shipping paper (OP-900) and certification form (OP-950) with the statement: **“This package conforms to 49CFR 173.13”**. This exception will relieve the shipper from labeling and the carrier from placarding requirements if prepared in accordance with 49 CFR 173.13.

- 2) **Special Permit**: Materials may be packaged and prepared in accordance with an authorized DOT **Special Permit**. These types of packages can be obtained through certain package suppliers or manufactures. These packages, because of their design and durability, have been granted a DOT special permit. When packaged, the shipper will be required to follow the guideline of the Special Permit as well as indicate on the shipping paper (OP-900) and certification form (OP-950) the DOT.-SP---- number. This Special Permit will relieve the shipper from labeling requirements and the carrier from placarding requirements.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	<i>Accellerene, see p-Nitrosodimethylaniline</i>								NA
	<i>Accumulators, electric, see Batteries, wet etc</i>								NA
	<i>Accumulators, pressurized, pneumatic or hydraulic (containing non-flammable gas), see Articles pressurized, pneumatic or hydraulic (containing non-flammable gas)</i>								NA
	Acetal	3	UN1088	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Acetaldehyde	3	UN1089	I	FLAMMABLE LIQUID	A3, B16, T11, TP2, TP7	None	201	
A	Acetaldehyde ammonia	9	UN1841	III	CLASS 9	IB8, IP3, IP7, T1, TP33	155	204	
	Acetaldehyde oxime	3	UN2332	III	FLAMMABLE LIQUID	B1, IB3, T4, TP1	150	203	
	Acetic acid, glacial or Acetic acid solution, with more than 80 percent acid, by mass	8 (3)	UN2789	II	CORROSIVE, FLAMMABLE LIQUID	A3, A6, A7, A10, B2, IB2, T7, TP2	154	202	
	Acetic acid solution, not less than 50 percent but not more than 80 percent acid, by mass	8	UN2790	II	CORROSIVE	A3, A6, A7, A10, B2, IB2, T7, TP2	154	202	
	Acetic acid solution, with more than 10 percent and less than 50 percent acid, by mass	8	UN2790	III	CORROSIVE	IB3, T4, TP1	154	203	
	Acetic anhydride	8 (3)	UN1715	II	CORROSIVE, FLAMMABLE LIQUID	A3, A6, A7, A10, B2, IB2, T7, TP2	154	202	
	Acetone	3	UN1090	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Acetone cyanohydrin, stabilized	6.1	UN1541	I	POISON	2, B9, B14, B32, B76, B77, N34, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Acetone oils	3	UN1091	II	FLAMMABLE LIQUID	IB2, T4, TP1, TP8	150	202	
	Acetonitrile	3	UN1648	II	FLAMMABLE LIQUID	IB2, T7, TP2	150	202	
	<i>Acetyl acetone peroxide with more than 9 percent by mass active oxygen</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Acetyl benzoyl peroxide, solid, or with more than 40 percent in solution</i>	Forbidden							Not Accepted by FedEx Ground
	Acetyl bromide	8	UN1716	II	CORROSIVE	B2, IB2, T8, TP2, TP12	154	202	
	Acetyl chloride	3 (8)	UN1717	II	FLAMMABLE LIQUID, CORROSIVE	A3, A6, A7, IB1, N34, T8, TP2, TP12	150	202	
	<i>Acetyl cyclohexanesulfonyl peroxide, with more than 82 percent wetted with less than 12 percent water</i>	Forbidden							Not Accepted by FedEx Ground
	Acetyl iodide	8	UN1898	II	CORROSIVE	B2, IB2, T7, TP2, TP13	154	202	
	Acetyl methyl carbinol	3	UN2621	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>Acetyl peroxide, solid, or with more than 25 percent in solution</i>	Forbidden							Not Accepted by FedEx Ground
	Acetylene, dissolved	2.1	UN1001		FLAMMABLE GAS	N86, N88	None	303	
	<i>Acetylene (liquefied)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Acetylene silver nitrate</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Acetylene, solvent free</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Acetylene tetrabromide, see Tetrabromoethane</i>								NA
	<i>Acid butyl phosphate, see Butyl acid phosphate</i>								NA
	Acid, sludge, see Sludge acid								NA
	Acridine	6.1	UN2713	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Acrolein dimer, stabilized	3	UN2607	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	Acrolein, stabilized	6.1 (3)	UN1092	I	POISON, FLAMMABLE LIQUID	1, B9, B14, B30, B42, B72, B77, T22, TP2, TP7, TP13, TP38, TP44	None	226	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Acrylamide, solid	6.1	UN2074	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Acrylamide solution	6.1	UN3426	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Acrylic acid, stabilized	8 (3)	UN2218	II	CORROSIVE, FLAMMABLE LIQUID	B2, IB2, T7, TP2	154	202	
	Acrylonitrile, stabilized	3 (6.1)	UN1093	I	FLAMMABLE LIQUID, POISON	B9, T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Actuating cartridge, explosive, see Cartridges, power device</i>								NA
	<i>Adhesives, containing a flammable liquid</i>	3	UN1133	I	FLAMMABLE LIQUID	B42, T11, TP1, TP8, TP27	150	201	
	<i>Adhesives, containing a flammable liquid</i>	3	UN1133	II	FLAMMABLE LIQUID	149, B52, IB2, T4, TP1, TP8	150	173	
	<i>Adhesives, containing a flammable liquid</i>	3	UN1133	III	FLAMMABLE LIQUID	B1, B52, IB3, T2, TP1	150	173	
	Adiponitrile	6.1	UN2205	III	POISON	IB3, T3, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Aerosols, corrosive, Packing Group II or III, (each not exceeding 1 L capacity)	2.2 (8)	UN1950		NONFLAMMABLE GAS, CORROSIVE	A34	306	None	
	Aerosols, flammable, (each not exceeding 1 L capacity)	2.1	UN1950		FLAMMABLE GAS	N82	306	None	
	Aerosols, flammable, n.o.s. (engine starting fluid) (each not exceeding 1 L capacity)	2.1	UN1950		FLAMMABLE GAS	N82	306	304	
	Aerosols, non-flammable, (each not exceeding 1 L capacity)	2.2	UN1950		NONFLAMMABLE GAS		306	None	
	Aerosols, poison, (each not exceeding 1 L capacity)	2.2 (6.1)	UN1950		NONFLAMMABLE GAS, POISON		306	None	Accepted only when packaged under applicable special permit or 49CFR 173.13
I	Air bag inflators, or Air bag modules, or Seat-belt pretensioners.	1.4G	UN0503	II	EXPLOSIVE 1.4G	161	None	62	Accepted only when packaged under applicable special permit or 49CFR 173.13 Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Air bag inflators, or Air bag modules, or Seat-belt pretensioners.	9	UN3268	III	CLASS 9	160	166	166	
	Air, compressed	2.2	UN1002		NONFLAMMABLE GAS	78	306, 307	302	
	Air, refrigerated liquid, (cryogenic liquid)	2.2 (5.1)	UN1003		NONFLAMMABLE GAS, OXIDIZER	T75, TP5, TP22	320	316	
	Air, refrigerated liquid, (cryogenic liquid) non-pressurized	2.2 (5.1)	UN1003		NONFLAMMABLE GAS, OXIDIZER	T75, TP5, TP22	320	316	
	<i>Aircraft engines (including turbines), see Engines, internal combustion</i>								NA
	<i>Aircraft evacuation slides, see Life saving appliances etc</i>								NA
	Aircraft hydraulic power unit fuel tank (containing a mixture of anhydrous hydrazine and monomethyl hydrazine) (M86 fuel)	3 (6.1, 8)	UN3165	I	FLAMMABLE LIQUID, POISON, CORROSIVE		None	172	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Aircraft survival kits, see Life saving appliances etc</i>								NA
G	Alcoholates solution, n.o.s., in alcohol	3 (8)	UN3274	II	FLAMMABLE LIQUID, CORROSIVE	IB2	150	202	
	Alcoholic beverages	3	UN3065	II	FLAMMABLE LIQUID	24, 149, B1, IB2, T4, TP1	150	202	Accepted only when packaged under 49CFR 173.150 (c) or (d) and with specific approval through PGH Legal Department

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Alcoholic beverages	3	UN3065	III	FLAMMABLE LIQUID	24, B1, IB3, N11, T2, TP1	150	203	Accepted only when packaged under 49CFR 173.150 (c) or (d) and with specific approval through PGH Legal Department
	Alcohols, n.o.s.	3	UN1987	I	FLAMMABLE LIQUID	172, T11, TP1, TP8, TP27	None	201	
	Alcohols, n.o.s.	3	UN1987	II	FLAMMABLE LIQUID	172, IB2, T7, TP1, TP8, TP28	150	202	
	Alcohols, n.o.s.	3	UN1987	III	FLAMMABLE LIQUID	172, B1, IB3, T4, TP1, TP29	150	203	
G	Alcohols, flammable, toxic n.o.s	3 (6.1)	UN1986	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Alcohols, flammable, toxic n.o.s	3 (6.1)	UN1986	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Alcohols, flammable, toxic n.o.s	3 (6.1)	UN1986	III	FLAMMABLE LIQUID, POISON	B1, IB3, T7, TP1, TP28	150	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Aldehydes, n.o.s.	3	UN1989	I	FLAMMABLE LIQUID	T11, TP1, TP27	None	201	
	Aldehydes, n.o.s.	3	UN1989	II	FLAMMABLE LIQUID	IB2, T7, TP1, TP8, TP28	150	202	
	Aldehydes, n.o.s.	3	UN1989	III	FLAMMABLE LIQUID	B1, IB3, T4, TP1, TP29	150	203	
G	Aldehydes, flammable, toxic, n.o.s.	3 (6.1)	UN1988	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Aldehydes, flammable, toxic, n.o.s.	3 (6.1)	UN1988	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Aldehydes, flammable, toxic, n.o.s.	3 (6.1)	UN1988	III	FLAMMABLE LIQUID, POISON	B1, IB3, T7, TP1, TP28	150	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Aldol	6.1	UN2839	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Alkali metal alcoholates, self-heating, corrosive, n.o.s.	4.2 (8)	UN3206	II	SPONTANEOUSLY COMBUSTIBLE, CORROSIVE	64, A7, IB5, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
G	Alkali metal alcoholates, self-heating, corrosive, n.o.s.	4.2 (8)	UN3206	III	SPONTANEOUSLY COMBUSTIBLE, CORROSIVE	64, A7, IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
	Alkali metal alloys, liquid, n.o.s.	4.3	UN1421	I	DANGEROUS WHEN WET	A2, A3, A7, B48, N34	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Alkali metal amalgam, liquid	4.3	UN1389	I	DANGEROUS WHEN WET	A2, A3, A7, N34	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Alkali metal amalgam, solid	4.3	UN3401	I	DANGEROUS WHEN WET	IB4, IP1, N40, T9, TP7, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Alkali metal amides	4.3	UN1390	II	DANGEROUS WHEN WET	A6, A7, A8, A19, A20, IB7, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Alkali metal dispersions, or Alkaline earth metal dispersions	4.3	UN1391	I	DANGEROUS WHEN WET	A2, A3, A7	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Alkaline corrosive liquids, n.o.s., see Caustic alkali liquids, n.o.s.								NA
G	Alkaline earth metal alcoholates, n.o.s.	4.2	UN3205	II	SPONTANEOUSLY COMBUSTIBLE	65, A7, IB6, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
G	Alkaline earth metal alcoholates, n.o.s.	4.2	UN3205	III	SPONTANEOUSLY COMBUSTIBLE	65, A7, IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
	Alkaline earth metal alloys, n.o.s.	4.3	UN1393	II	DANGEROUS WHEN WET	A19, IB7, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Alkaline earth metal amalgams, liquid	4.3	UN1392	I	DANGEROUS WHEN WET	A19, N34, N40	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Alkaline earth metal amalgams, solid	4.3	UN3402	I	DANGEROUS WHEN WET	A19, N34, N40, T9, TP7, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Alkaloids, liquid, n.o.s., or Alkaloid salts, liquid, n.o.s.	6.1	UN3140	I	POISON	A4, T14, TP2, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Alkaloids, liquid, n.o.s., or Alkaloid salts, liquid, n.o.s.	6.1	UN3140	II	POISON	IB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Alkaloids, liquid, n.o.s., or Alkaloid salts, liquid, n.o.s.	6.1	UN3140	III	POISON	IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Alkaloids, solid, n.o.s. or Alkaloid salts, solid, n.o.s. <i>poisonous</i>	6.1	UN1544	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Alkaloids, solid, n.o.s. or Alkaloid salts, solid, n.o.s. <i>poisonous</i>	6.1	UN1544	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Alkaloids, solid, n.o.s. or Alkaloid salts, solid, n.o.s. <i>poisonous</i>	6.1	UN1544	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Alkyl sulfonic acids, liquid or Aryl sulfonic acids, liquid with more than 5 percent free sulfuric acid	8	UN2584	II	CORROSIVE	B2, IB2, T8, TP2, TP12, TP13	154	202	
	Alkyl sulfonic acids, liquid or Aryl sulfonic acids, liquid with not more than 5 percent free sulfuric acid	8	UN2586	III	CORROSIVE	IB3, T4, TP1	154	203	
	Alkyl sulfonic acids, solid or Aryl sulfonic acids, solid, with more than 5 percent free sulfuric acid	8	UN2583	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Alkyl sulfonic acids, solid or Aryl sulfonic acids, solid with not more than 5 percent free sulfuric acid	8	UN2585	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Alkylphenols, liquid, n.o.s. (including C2-C12 homologues)	8	UN3145	I	CORROSIVE	A6, T14, TP2	None	201	
	Alkylphenols, liquid, n.o.s. (including C2-C12 homologues)	8	UN3145	II	CORROSIVE	IB2, T11, TP2, TP27	154	202	
	Alkylphenols, liquid, n.o.s. (including C2-C12 homologues)	8	UN3145	III	CORROSIVE	IB3, T7, TP1, TP28	154	203	
	Alkylphenols, solid, n.o.s. (including C2-C12 homologues)	8	UN2430	I	CORROSIVE	IB7, IP1, T6, TP33	None	211	
	Alkylphenols, solid, n.o.s. (including C2-C12 homologues)	8	UN2430	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Alkylphenols, solid, n.o.s. (including C2-C12 homologues)	8	UN2430	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Alkylsulfuric acids	8	UN2571	II	CORROSIVE	B2, IB2, T8, TP2, TP12, TP13, TP28	154	202	
	Allethrin, see Pesticides, liquid, toxic, n.o.s.								NA
	Allyl acetate	3 (6.1)	UN2333	II	FLAMMABLE LIQUID, POISON	IB2, T7, TP1, TP13	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Allyl alcohol	6.1 (3)	UN1098	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Allyl bromide	3 (6.1)	UN1099	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Allyl chloride	3 (6.1)	UN1100	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Allyl chlorocarbonate, see Allyl chloroformate								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Allyl chloroformate	6.1 (3, 8)	UN1722	I	POISON, FLAMMABLE LIQUID, CORROSIVE	2, B9, B14, B32, B74, N41, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Allyl ethyl ether	3 (6.1)	UN2335	II	FLAMMABLE LIQUID, POISON	IB2, T7, TP1, TP13	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Allyl formate	3 (6.1)	UN2336	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Allyl glycidyl ether	3	UN2219	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Allyl iodide	3 (8)	UN1723	II	FLAMMABLE LIQUID, CORROSIVE	A3, A6, IB1, N34, T7, TP2, TP13	150	202	
	Allyl isothiocyanate, stabilized	6.1 (3)	UN1545	II	POISON, FLAMMABLE LIQUID	A3, A7, IB2, T7, TP2	None	202	Not Accepted by FedEx Ground
	Allylamine	6.1 (3)	UN2334	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Allyltrichlorosilane, stabilized	8 (3)	UN1724	II	CORROSIVE, FLAMMABLE LIQUID	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	
	Aluminum borohydride or Aluminum borohydride in devices	4.2 (4.3)	UN2870	I	SPONTANEOUSLY COMBUSTIBLE, DANGEROUS WHEN WET	B11, T21, TP7, TP33	None	181	Not Accepted by FedEx Ground
	Aluminum bromide, anhydrous	8	UN1725	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Aluminum bromide, solution	8	UN2580	III	CORROSIVE	IB3, T4, TP1	154	203	
	Aluminum carbide	4.3	UN1394	II	DANGEROUS WHEN WET	A20, IB7, IP2, N41, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Aluminum chloride, anhydrous	8	UN1726	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Aluminum chloride, solution	8	UN2581	III	CORROSIVE	IB3, T4, TP1	154	203	
	<i>Aluminum dross, wet or hot</i>	Forbidden							Not Accepted by FedEx Ground
	Aluminum ferrosilicon powder	4.3 (6.1)	UN1395	II	DANGEROUS WHEN WET, POISON	A19, IB5, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Aluminum ferrosilicon powder	4.3 (6.1)	UN1395	III	DANGEROUS WHEN WET, POISON	A19, A20, IB4	151	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Aluminum hydride	4.3	UN2463	I	DANGEROUS WHEN WET	A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
D	Aluminum, molten	9	NA9260	III	CLASS 9	IB3, T1, TP3	None	None	
	Aluminum nitrate	5.1	UN1438	III	OXIDIZER	A1, A29, IB8, IP3, T1, TP33	152	213	
	<i>Aluminum phosphate solution, see Corrosive liquids, etc</i>								NA
	Aluminum phosphide	4.3 (6.1)	UN1397	I	DANGEROUS WHEN WET, POISON	A8, A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Aluminum phosphide pesticides	6.1	UN3048	I	POISON	A8, IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Aluminum powder, coated	4.1	UN1309	II	FLAMMABLE SOLID	IB8, IP2, IP4, T3, TP33	151	212	
	Aluminum powder, coated	4.1	UN1309	III	FLAMMABLE SOLID	IB8, IP3, T1, TP33	151	213	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Aluminum powder, uncoated	4.3	UN1396	II	DANGEROUS WHEN WET	A19, A20, IB7, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Aluminum powder, uncoated	4.3	UN1396	III	DANGEROUS WHEN WET	A19, A20, IB8, IP4, T1, TP33	151	213	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Aluminum resinate	4.1	UN2715	III	FLAMMABLE SOLID	IB6, T1, TP33	151	213	
	Aluminum silicon powder, uncoated	4.3	UN1398	III	DANGEROUS WHEN WET	A1, A19, IB8, IP4, T1, TP33	151	213	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Aluminum smelting by-products or Aluminum remelting by-products	4.3	UN3170	II	DANGEROUS WHEN WET	128, B115, IB7, IP2, T3, TP33	None	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Aluminum smelting by-products or Aluminum remelting by-products	4.3	UN3170	III	DANGEROUS WHEN WET	128, B115, IB8, IP4, T1, TP33	None	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Amatols, see Explosives, blasting, type B</i>								NA
G	Amine, flammable, corrosive, n.o.s. or Polyamines, flammable, corrosive, n.o.s	3 (8)	UN2733	I	FLAMMABLE LIQUID, CORROSIVE	T14, TP1, TP27	None	201	
G	Amine, flammable, corrosive, n.o.s. or Polyamines, flammable, corrosive, n.o.s	3 (8)	UN2733	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T11, TP1, TP27	150	202	
G	Amine, flammable, corrosive, n.o.s. or Polyamines, flammable, corrosive, n.o.s	3 (8)	UN2733	III	FLAMMABLE LIQUID, CORROSIVE	B1, IB3, T7, TP1, TP28	150	203	
G	Amine, liquid, corrosive, flammable, n.o.s. or Polyamines, liquid, corrosive, flammable, n.o.s	8 (3)	UN2734	I	CORROSIVE, FLAMMABLE LIQUID	A3, A6, N34, T14, TP2, TP27	None	201	
G	Amine, liquid, corrosive, flammable, n.o.s. or Polyamines, liquid, corrosive, flammable, n.o.s	8 (3)	UN2734	II	CORROSIVE, FLAMMABLE LIQUID	IB2, T11, TP1, TP27	150	202	
G	Amines, liquid, corrosive, n.o.s., or Polyamines, liquid, corrosive, n.o.s.	8	UN2735	I	CORROSIVE	A3, A6, B10, N34, T14, TP2, TP27	None	201	
G	Amines, liquid, corrosive, n.o.s., or Polyamines, liquid, corrosive, n.o.s.	8	UN2735	II	CORROSIVE	B2, IB2, T11, TP1, TP27	154	202	
G	Amines, liquid, corrosive, n.o.s., or Polyamines, liquid, corrosive, n.o.s.	8	UN2735	III	CORROSIVE	IB3, T7, TP1, TP28	154	203	
G	Amines, solid, corrosive, n.o.s., or Polyamines, solid, corrosive n.o.s.	8	UN3259	I	CORROSIVE	IB7, IP1, T6, TP33	None	211	
G	Amines, solid, corrosive, n.o.s., or Polyamines, solid, corrosive n.o.s.	8	UN3259	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
G	Amines, solid, corrosive, n.o.s., or Polyamines, solid, corrosive n.o.s.	8	UN3259	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	2-Amino-4-chlorophenol	6.1	UN2673	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2-Amino-5-diethylaminopentane	6.1	UN2946	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2-Amino-4,6-Dinitrophenol, wetted with not less than 20 percent water by mass	4.1	UN3317	I	FLAMMABLE SOLID	23, A8, A19, A20, N41	None	211	
	2-(2-Aminoethoxy) ethanol	8	UN3055	III	CORROSIVE	IB3, T4, TP1	154	203	
	N-Aminoethylpiperazine	8	UN2815	III	CORROSIVE	IB3, T4, TP1	154	203	
+	Aminophenols (o-; m-; p-)	6.1	UN2512	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Aminopropylidethanolamine, see Amines, etc</i>								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	<i>n-Aminopropylmorpholine, see Amines, etc</i>								NA
	Aminopyridines (o-; m-; p-)	6.1	UN2671	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
I	Ammonia, anhydrous	2.3 (8)	UN1005		POISON GAS, CORROSIVE	4, N87, T50	None	304	Not Accepted by FedEx Ground
D	Ammonia, anhydrous	2.2	UN1005		NONFLAMMABLE GAS	13, T50	None	304	Not Accepted by FedEx Ground
I	Ammonia solution, relative density less than 0.880 at 15 degrees C in water, with more than 50 percent ammonia	2.3 (8)	UN3318		POISON GAS, CORROSIVE	4, N87, T50	None	304	Not Accepted by FedEx Ground
D	Ammonia solution, relative density less than 0.880 at 15 degrees C in water, with more than 50 percent ammonia	2.2	UN3318		NONFLAMMABLE GAS	13, T50	None	304	Not Accepted by FedEx Ground
	Ammonia solutions, relative density less than 0.880 at 15 degrees C in water, with more than 35 percent but not more than 50 percent ammonia	2.2	UN2073		NONFLAMMABLE GAS	N87	306	304	
	Ammonia solution, relative density between 0.880 and 0.957 at 15 degrees C in water, with more than 10 percent but not more than 35 percent ammonia	8	UN2672	III	CORROSIVE	IB3, IP8, T7, TP1	154	203	
	Ammonium arsenate	6.1	UN1546	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Ammonium azide</i>	Forbidden							Not Accepted by FedEx Ground
	Ammonium bifluoride, solid, see Ammonium hydrogen difluoride, solid								NA
	Ammonium bifluoride solution, see Ammonium hydrogen difluoride, solution								NA
	<i>Ammonium bromate</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Ammonium chlorate</i>	Forbidden							Not Accepted by FedEx Ground
	Ammonium dichromate	5.1	UN1439	II	OXIDIZER	IB8, IP2, IP4, T3, TP33	152	212	Not to exceed 10 lb. (4.45kg) per package- see RQ Table
	Ammonium dinitro-o-cresolate, solid	6.1	UN1843	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ammonium dinitro-o-cresolate solution	6.1	UN3424	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ammonium dinitro-o-cresolate solution	6.1	UN3424	III	POISON	IB2, T7, TP2	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ammonium fluoride	6.1	UN2505	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ammonium fluorosilicate	6.1	UN2854	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Ammonium fulminate</i>	Forbidden							Not Accepted by FedEx Ground
	Ammonium hydrogen sulfate	8	UN2506	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Ammonium hydrogendifluoride, solid	8	UN1727	II	CORROSIVE	IB8, IP2, IP4, N34, T3, TP33	154	212	
	Ammonium hydrogendifluoride, solution	8 (6.1)	UN2817	II	CORROSIVE, POISON	IB2, N34, T8, TP2, TP12, TP13	154	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ammonium hydrogendifluoride, solution	8 (6.1)	UN2817	III	CORROSIVE, POISON	IB3, N3, T4, TP1, TP12, TP13	154	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Ammonium hydrosulfide, solution, see Ammonium sulfide solution</i>								NA
D	Ammonium hydroxide, see Ammonia solutions, etc								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Ammonium metavanadate	6.1	UN2859	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ammonium nitrate based fertilizer	5.1	UN2067	III	OXIDIZER	52, 150, IB8, IP3, T1, TP33	152	213	
A W	Ammonium nitrate based fertilizer	9	UN2071	III	CLASS 9	132, IB8, IP3	155	213	
	Ammonium nitrate emulsion or Ammonium nitrate suspension or Ammonium nitrate gel, intermediate for blasting explosives	5.1	UN3375	II	OXIDIZER	147, 163	None	214	Accepted only with approval per Special Provision 147
D	Ammonium nitrate-fuel oil mixture containing only prilled ammonium nitrate and fuel oil	1.5D	NA0331	II	EXPLOSIVE 1.5D		None	62	Not Accepted by FedEx Ground
	Ammonium nitrate, liquid (hot concentrated solution)	5.1	UN2426		OXIDIZER	B5, T7	None	None	Not Accepted by FedEx Ground
	Ammonium nitrate, with more than 0.2 percent combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance	1.1D	UN0222	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Ammonium nitrate, with not more than 0.2% total combustible material, including any organic substance, calculated as carbon to the exclusion of any other added substance	5.1	UN1942	III	OXIDIZER	A1, A29, IB8, IP3, T1, TP33	152	213	
	Ammonium nitrite	Forbidden							Not Accepted by FedEx Ground
	Ammonium perchlorate	1.1D	UN0402	II	EXPLOSIVE 1.1D	107	None	62	Not Accepted by FedEx Ground
	Ammonium perchlorate	5.1	UN1442	II	OXIDIZER	107, A9, IB6, IP2, T3, TP33	152	212	
	Ammonium permanganate	Forbidden							Not Accepted by FedEx Ground
	Ammonium persulfate	5.1	UN1444	III	OXIDIZER	A1, A29, IB8, IP3, T1, TP33	152	213	
	Ammonium picrate, dry or wetted with less than 10 percent water, by mass	1.1D	UN0004	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Ammonium picrate, wetted with not less than 10 percent water, by mass	4.1	UN1310	I	FLAMMABLE SOLID	23, A2, N41	None	211	Not to exceed 10 lb. (4.45kg) per package- see RQ Table
	Ammonium polysulfide, solution	8 (6.1)	UN2818	II	CORROSIVE, POISON	IB2, T7, TP2, TP13	154	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ammonium polysulfide, solution	8 (6.1)	UN2818	III	CORROSIVE, POISON	IB3, T4, TP1, TP13	154	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ammonium polyvanadate	6.1	UN2861	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ammonium silicofluoride, see Ammonium fluorosilicate								NA
	Ammonium sulfide solution	8 (6.1, 3)	UN2683	II	CORROSIVE, POISON, FLAMMABLE LIQUID	IB1, T7, TP2, TP13	154	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ammunition, blank, see Cartridges for weapons, blank								NA
	Ammunition, illuminating with or without burster, expelling charge or propelling charge	1.2G	UN0171	II	EXPLOSIVE 1.2G			62	Not Accepted by FedEx Ground
	Ammunition, illuminating with or without burster, expelling charge or propelling charge	1.3G	UN0254	II	EXPLOSIVE 1.3G			62	Not Accepted by FedEx Ground
	Ammunition, illuminating with or without burster, expelling charge or propelling charge	1.4G	UN0297	II	EXPLOSIVE 1.4G			62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Ammunition, incendiary liquid or gel, with burster, expelling charge or propelling charge	1.3J	UN0247	II	EXPLOSIVE 1.3J			62	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	<i>Ammunition, incendiary (water-activated contrivances) with burster, expelling charge or propelling charge, see Contrivances, water-activated, etc.</i>								NA
	Ammunition, incendiary, white phosphorus, with burster, expelling charge or propelling charge	1.2H	UN0243	II	EXPLOSIVE 1.2H			62	Not Accepted by FedEx Ground
	Ammunition, incendiary, white phosphorus, with burster, expelling charge or propelling charge	1.3H	UN0244	II	EXPLOSIVE 1.3H			62	Not Accepted by FedEx Ground
	Ammunition, incendiary with or without burster, expelling charge, or propelling charge	1.2G	UN0009	II	EXPLOSIVE 1.2G			62	Not Accepted by FedEx Ground
	Ammunition, incendiary with or without burster, expelling charge, or propelling charge	1.3G	UN0010	II	EXPLOSIVE 1.3G			62	Not Accepted by FedEx Ground
	Ammunition, incendiary with or without burster, expelling charge or propelling charge	1.4G	UN0300	II	EXPLOSIVE 1.4G			62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Ammunition, practice	1.4G	UN0362	II	EXPLOSIVE 1.4G			62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Ammunition, practice	1.3G	UN0488	II	EXPLOSIVE 1.3G			62	Not Accepted by FedEx Ground
	Ammunition, proof	1.4G	UN0363	II	EXPLOSIVE 1.4G			62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	<i>Ammunition, rocket, see Warheads, rocket etc</i>								NA
	<i>Ammunition, SA (small arms), see Cartridges for weapons, etc</i>								NA
	<i>Ammunition, smoke (water-activated contrivances), white phosphorus, with burster, expelling charge or propelling charge, see Contrivances, water-activated, etc. (UN 0248)</i>								NA
	<i>Ammunition, smoke (water-activated contrivances), without white phosphorus or phosphides, with burster, expelling charge or propelling charge, see Contrivances, water-activated, etc. (UN 0249)</i>								NA
	Ammunition smoke, white phosphorus with burster, expelling charge, or propelling charge	1.2H	UN0245	II	EXPLOSIVE 1.2H			62	Not Accepted by FedEx Ground
	Ammunition, smoke, white phosphorus with burster, expelling charge, or propelling charge	1.3H	UN0246	II	EXPLOSIVE 1.3H			62	Not Accepted by FedEx Ground
	Ammunition, smoke with or without burster, expelling charge or propelling charge	1.2G	UN0015	II	EXPLOSIVE 1.2G			62	Not Accepted by FedEx Ground
	Ammunition, smoke with or without burster, expelling charge or propelling charge	1.3G	UN0016	II	EXPLOSIVE 1.3G			62	Not Accepted by FedEx Ground
	Ammunition, smoke with or without burster, expelling charge or propelling charge	1.4G	UN0303	II	EXPLOSIVE 1.4G			62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	<i>Ammunition, sporting, see Cartridges for weapons, etc. (UN 0012; UN 0328; UN 0339)</i>								NA
	Ammunition, tear-producing, non-explosive, without burster or expelling charge, non-fuzed	6.1 (8)	UN2017	II	POISON, CORROSIVE		None	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ammunition, tear-producing with burster, expelling charge or propelling charge	1.2G (8, 6.1)	UN0018	II	EXPLOSIVE 1.2G, CORROSIVE, POISON			62	Not Accepted by FedEx Ground
	Ammunition, tear-producing with burster, expelling charge or propelling charge	1.3G (8, 6.1)	UN0019	II	EXPLOSIVE 1.3G, CORROSIVE, POISON			62	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Ammunition, tear-producing with burster, expelling charge or propelling charge	1.4G (8, 6.1)	UN0301	II	EXPLOSIVE 1.4G, CORROSIVE, POISON			62	Not Accepted by FedEx Ground
	Ammunition, toxic, non-explosive, without burster or expelling charge, non-fuzed	6.1	UN2016	II	POISON		None	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Ammunition, toxic (water-activated contrivances), with burster, expelling charge or propelling charge, see Contrivances, water-activated, etc</i>								NA
G	Ammunition, toxic with burster, expelling charge, or propelling charge	1.2K (6.1)	UN0020	II	EXPLOSIVE 1.2K, POISON			62	Not Accepted by FedEx Ground
G	Ammunition, toxic with burster, expelling charge, or propelling charge	1.3K (6.1)	UN0021	II	EXPLOSIVE 1.3K, POISON			62	Not Accepted by FedEx Ground
	Amyl acetates	3	UN1104	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Amyl acid phosphate	8	UN2819	III	CORROSIVE	IB3, T4, TP1	154	203	
	Amyl butyrates	3	UN2620	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Amyl chlorides	3	UN1107	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Amyl formates	3	UN1109	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Amyl mercaptans	3	UN1111	II	FLAMMABLE LIQUID	A3, A6, IB2, T4, TP1	None	202	
	n-Amyl methyl ketone	3	UN1110	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Amyl nitrate	3	UN1112	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Amyl nitrites	3	UN1113	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Amylamines	3 (8)	UN1106	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1	150	202	
	Amylamines	3 (8)	UN1106	III	FLAMMABLE LIQUID, CORROSIVE	B1, IB3, T4, TP1	150	203	
	Amyltrichlorosilane	8	UN1728	II	CORROSIVE	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	
	Anhydrous ammonia, see Ammonia, anhydrous								NA
	Anhydrous hydrofluoric acid, see Hydrogen fluoride, anhydrous								NA
+	Aniline	6.1	UN1547	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Aniline hydrochloride	6.1	UN1548	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Aniline oil, see Aniline</i>								NA
	Anisidines	6.1	UN2431	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Anisole	3	UN2222	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Anisoyl chloride	8	UN1729	II	CORROSIVE	B2, B4, IB8, IP2, IP4, T3, TP33	154	212	
	<i>Anti-freeze, liquid, see Flammable liquids, n.o.s.</i>								NA
	<i>Antimonous chloride, see Antimony trichloride</i>								NA
	Antimony compounds, inorganic, liquid, n.o.s.	6.1	UN3141	III	POISON	35, IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Antimony compounds, inorganic, solid, n.o.s.	6.1	UN1549	III	POISON	35, IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Antimony lactate	6.1	UN1550	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Antimony pentachloride, liquid	8	UN1730	II	CORROSIVE	B2, IB2, T7, TP2	None	202	
	Antimony pentachloride, solutions	8	UN1731	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	Antimony pentachloride, solutions	8	UN1731	III	CORROSIVE	IB3, T4, TP1	154	203	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Antimony pentafluoride	8 (6.1)	UN1732	II	CORROSIVE, POISON	A3, A6, A7, A10, IB2, N3, N36, T7, TP2	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Antimony potassium tartrate	8	UN1551	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Antimony powder	8 (6.1)	UN2871	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Antimony sulfide and a chlorate, mixtures of</i>	8							Not Accepted by FedEx Ground
	Antimony sulfide, solid, see Antimony compounds, inorganic, n.o.s.	8 (6.1)							NA
	Antimony trichloride, liquid	8	UN1733	II	CORROSIVE	B2, IB2	154	202	
	Antimony trichloride, solid	8	UN1733	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	<i>Aqua ammonia, see Ammonia solution, etc</i>								NA
	Argon, compressed	2.2	UN1006		NONFLAMMABLE GAS		306	302	
	Argon, refrigerated liquid (cryogenic liquid)	2.2	UN1951		NONFLAMMABLE GAS	T75, TP5	320	316	Accepted only when packaged under exception 49CFR 173.320
	Arsenic	6.1	UN1558	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	Arsenic acid, liquid	6.1	UN1553	I	POISON	T20, TP2, TP7, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	Arsenic acid, solid	6.1	UN1554	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	Arsenic bromide	6.1	UN1555	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Arsenic chloride, see Arsenic trichloride</i>								NA
	Arsenic compounds, liquid, n.o.s. inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.	6.1	UN1556	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenic compounds, liquid, n.o.s. inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.	6.1	UN1556	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenic compounds, liquid, n.o.s. inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.	6.1	UN1556	III	POISON	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenic compounds, solid, n.o.s. inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.	6.1	UN1557	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenic compounds, solid, n.o.s. inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.	6.1	UN1557	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Arsenic compounds, solid, n.o.s. inorganic, including arsenates, n.o.s.; arsenites, n.o.s.; arsenic sulfides, n.o.s.; and organic compounds of arsenic, n.o.s.	6.1	UN1557	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenic pentoxide <i>Arsenic sulfide and a chlorate, mixtures of</i>	6.1 Forbidden	UN1559	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	Arsenic trichloride	6.1	UN1560	I	POISON	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Arsenic trioxide <i>Arsenic, white, solid, see Arsenic trioxide</i>	6.1	UN1561	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	Arsenical dust	6.1	UN1562	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenical pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2760	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenical pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2760	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenical pesticides, liquid, toxic	6.1	UN2994	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenical pesticides, liquid, toxic	6.1	UN2994	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenical pesticides, liquid, toxic	6.1	UN2994	III	POISON	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenical pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN2993	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenical pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN2993	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenical pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN2993	III	POISON, FLAMMABLE LIQUID	B1, IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenical pesticides, solid, toxic	6.1	UN2759	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenical pesticides, solid, toxic	6.1	UN2759	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenical pesticides, solid, toxic	6.1	UN2759	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Arsenious acid, solid, see Arsenic trioxide <i>Arsenious and mercuric iodide solution, see Arsenic compounds, liquid, n.o.s.</i>								NA
	Arsine	2.3 (2.1)	UN2188		POISON GAS, FLAMMABLE GAS	1	None	192	Not Accepted by FedEx Ground
	Articles, explosive, extremely insensitive or Articles, EEI	1.6N	UN0486	II	EXPLOSIVE 1.6N		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
G	Articles, explosive, n.o.s	1.4S	UN0349	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
G	Articles, explosive, n.o.s	1.4B	UN0350	II	EXPLOSIVE 1.4B		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
G	Articles, explosive, n.o.s	1.4C	UN0351	II	EXPLOSIVE 1.4C		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
G	Articles, explosive, n.o.s	1.4D	UN0352	II	EXPLOSIVE 1.4D		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
G	Articles, explosive, n.o.s	1.4G	UN0353	II	EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
G	Articles, explosive, n.o.s	1.1L	UN0354	II	EXPLOSIVE 1.1L		None	62	Not Accepted by FedEx Ground
G	Articles, explosive, n.o.s	1.2L	UN0355	II	EXPLOSIVE 1.2L		None	62	Not Accepted by FedEx Ground
G	Articles, explosive, n.o.s	1.3L	UN0356	II	EXPLOSIVE 1.3L		None	62	Not Accepted by FedEx Ground
G	Articles, explosive, n.o.s	1.1C	UN0462	II	EXPLOSIVE 1.1C		None	62	Not Accepted by FedEx Ground
G	Articles, explosive, n.o.s	1.1D	UN0463	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
G	Articles, explosive, n.o.s	1.1E	UN0464	II	EXPLOSIVE 1.1E		None	62	Not Accepted by FedEx Ground
G	Articles, explosive, n.o.s	1.1F	UN0465	II	EXPLOSIVE 1.1F		None	62	Not Accepted by FedEx Ground
G	Articles, explosive, n.o.s	1.2C	UN0466	II	EXPLOSIVE 1.2C		None	62	Not Accepted by FedEx Ground
G	Articles, explosive, n.o.s	1.2D	UN0467	II	EXPLOSIVE 1.2D		None	62	Not Accepted by FedEx Ground
G	Articles, explosive, n.o.s	1.2E	UN0468	II	EXPLOSIVE 1.2E		None	62	Not Accepted by FedEx Ground
G	Articles, explosive, n.o.s	1.2F	UN0469	II	EXPLOSIVE 1.2F		None	62	Not Accepted by FedEx Ground
G	Articles, explosive, n.o.s	1.3C	UN0470	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
G	Articles, explosive, n.o.s	1.4E	UN0471	II	EXPLOSIVE 1.4E		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
G	Articles, explosive, n.o.s	1.4F	UN0472	II	EXPLOSIVE 1.4F		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Articles, pressurized pneumatic or hydraulic containing non-flammable gas	2.2	UN3164		NONFLAMMABLE GAS		306	302, 304	
	Articles, pyrophoric	1.2L	UN0380	II	EXPLOSIVE 1.2L		None	62	Not Accepted by FedEx Ground
	Articles, pyrotechnic for technical purposes	1.1G	UN0428	II	EXPLOSIVE 1.1G		None	62	Not Accepted by FedEx Ground
	Articles, pyrotechnic for technical purposes	1.2G	UN0429	II	EXPLOSIVE 1.2G		None	62	Not Accepted by FedEx Ground
	Articles, pyrotechnic for technical purposes	1.3G	UN0430	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	Articles, pyrotechnic for technical purposes	1.4G	UN0431	II	EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Articles, pyrotechnic for technical purposes	1.4S	UN0432	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
D	Asbestos	9	NA2212	III	CLASS 9	156, IB8, IP2, IP4	155	216	
	Ascaridole (organic peroxide)	Forbidden							Not Accepted by FedEx Ground
D	Asphalt, at or above its flash point	3	NA1999	III	FLAMMABLE LIQUID	IB3, T1, TP3	150	203	
D	Asphalt, cut back, see Tars, liquid, etc								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	<i>Automobile, motorcycle, tractor, other self-propelled vehicle, engine, or other mechanical apparatus, see Vehicles or Battery etc</i>								NA
A G	Aviation regulated liquid, n.o.s.	9	UN3334		CLASS 9	A35	155	204	
A G	Aviation regulated solid, n.o.s.	9	UN3335		CLASS 9	A35	155	204	
	<i>Azaurolic acid (salt of) (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Azido guanidine picrate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>5-Azido-1-hydroxy tetrazole</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Azido hydroxy tetrazole (mercury and silver salts)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>3-Azido-1,2-Propylene glycol dinitrate</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Azidodithiocarbonic acid</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Azidoethyl nitrate</i>	Forbidden							Not Accepted by FedEx Ground
	<i>1-Aziridinylphosphine oxide-(tris), see Tris-(1-aziridinyl) phosphine oxide, solution</i>								NA
	Azodicarbonamide	4.1	UN3242	II	FLAMMABLE SOLID	38, IB8, T3, TP33	151	212	
	<i>Azotetrazole (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Barium	4.3	UN1400	II	DANGEROUS WHEN WET	A19, IB7, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Barium alloys, pyrophoric	4.2	UN1854	I	SPONTANEOUSLY COMBUSTIBLE	T21, TP7, TP33	None	181	Not Accepted by FedEx Ground
	Barium azide, dry or wetted with less than 50 percent water, by mass	1.1A (6.1)	UN0224	II	EXPLOSIVE 1.1A, POISON	111, 117	None	62	Not Accepted by FedEx Ground
	Barium azide, wetted with not less than 50 percent water, by mass	4.1 (6.1)	UN1571	I	FLAMMABLE SOLID, POISON	162, A2	None	182	Not Accepted by FedEx Ground
	Barium bromate	5.1 (6.1)	UN2719	II	OXIDIZER, POISON	IB8, IP2, IP4, T3, TP33	152	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Barium chlorate, solid	5.1 (6.1)	UN1445	II	OXIDIZER, POISON	A9, IB6, IP2, N34, T3, TP33	152	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Barium chlorate, solution	5.1 (6.1)	UN3405	II	OXIDIZER, POISON	A9, IB2, N34, T4, TP1	152	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Barium chlorate, solution	5.1 (6.1)	UN3405	III	OXIDIZER, POISON	A9, IB2, N34, T4, TP1	152	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Barium compounds, n.o.s.	6.1	UN1564	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Barium compounds, n.o.s.	6.1	UN1564	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Barium cyanide	6.1	UN1565	I	POISON	IB7, IP1, N74, N75, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Barium hypochlorite with more than 22 percent available chlorine	5.1 (6.1)	UN2741	II	OXIDIZER, POISON	A7, A9, IB8, IP2, IP4, N34, T3, TP33	152	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.152
	Barium nitrate	5.1 (6.1)	UN1446	II	OXIDIZER, POISON	IB8, IP2, IP4, T3, TP33	152	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Barium oxide	6.1	UN1884	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Barium perchlorate, solid	5.1 (6.1)	UN1447	II	OXIDIZER, POISON	IB6, IP2, T3, TP33	152	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Barium perchlorate, solution	5.1 (6.1)	UN3406	II	OXIDIZER, POISON	IB2, T4, TP1	152	202	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Barium perchlorate, solution	5.1 (6.1)	UN3406	III	OXIDIZER, POISON	IB2, T4, TP1	152	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Barium permanganate	5.1 (6.1)	UN1448	II	OXIDIZER, POISON	IB6, IP2, T3, TP33	152	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Barium peroxide	5.1 (6.1)	UN1449	II	OXIDIZER, POISON	A9, IB6, IP2, T3, TP33	152	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Barium selenate, see Selenates or Selenites</i>								NA
	<i>Barium selenite, see Selenates or Selenites</i>								NA
	Batteries, containing sodium	4.3	UN3292	II	DANGEROUS WHEN WET		189	189	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Batteries, dry, containing potassium hydroxide solid, electric storage	8	UN3028	III	CORROSIVE		None	213	
	Batteries, wet, filled with acid, electric storage	8	UN2794	III	CORROSIVE		159	159	
	Batteries, wet, filled with alkali, electric storage	8	UN2795	III	CORROSIVE		159	159	
	Batteries, wet, non-spillable, electric storage	8	UN2800	III	CORROSIVE		159	159	May not be regulated via highway
	Batteries, dry, sealed, n.o.s.					130			NA
	Battery fluid, acid	8	UN2796	II	CORROSIVE	A3, A7, B2, B15, IB2, N6, N34, T8, TP2, TP12	154	202	
	Battery fluid, alkali	8	UN2797	II	CORROSIVE	B2, IB2, N6, T7, TP2, TP28	154	202	
	<i>Battery lithium type, see Lithium batteries etc</i>								NA
	Battery-powered vehicle or Battery-powered equipment	9	UN3171		CLASS 9	134	220	220	
	<i>Battery, wet, filled with acid or alkali with vehicle or mechanical equipment containing an internal combustion engine, see Vehicle, etc. or Engines, internal combustion, etc</i>								NA
+	Benzaldehyde	9	UN1990	III	CLASS 9	IB3, T2, TP1	155	203	
	Benzene	3	UN1114	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	Not to exceed 10 lb. (4.45kg) per package- see RQ Table
	<i>Benzene diazonium chloride (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Benzene diazonium nitrate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Benzene phosphorus dichloride, see Phenyl phosphorus dichloride</i>								NA
	<i>Benzene phosphorus thiodichloride, see Phenyl phosphorus thiodichloride</i>								NA
	Benzene sulfonyl chloride	8	UN2225	III	CORROSIVE	IB3, T4, TP1	154	203	
	<i>Benzene triozonide</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Benzenethiol, see Phenyl mercaptan</i>								NA
	Benidine	6.1	UN1885	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	<i>Benzol, see Benzene</i>								NA
	Benzonitrile	6.1	UN2224	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Benzoquinone	6.1	UN2587	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Benzotrithloride	8	UN2226	II	CORROSIVE	B2, IB2, T7, TP2	154	202	Not to exceed 10 lb. (4.45kg) per package- see RQ Table

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Benzotrifluoride	3	UN2338	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>Benzoxiadiazoles (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Benzoyl azide</i>	Forbidden							Not Accepted by FedEx Ground
	Benzoyl chloride	8	UN1736	II	CORROSIVE	B2, IB2, T8, TP2, TP12, TP13	154	202	
	Benzyl bromide	6.1 (8)	UN1737	II	POISON, CORROSIVE	A3, A7, IB2, N33, N34, T8, TP2, TP12, TP13	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Benzyl chloride	6.1 (8)	UN1738	II	POISON, CORROSIVE	A3, A7, B70, IB2, N33, N42, T8, TP2, TP12, TP13	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Benzyl chloride <i>unstabilized</i>	6.1 (8)	UN1738	II	POISON, CORROSIVE	A3, A7, B8, B11, IB2, N33, N34, N43, T8, TP2, TP12, TP13	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Benzyl chloroformate	8	UN1739	I	CORROSIVE	A3, A6, B4, N41, T10, TP2, TP12, TP13	None	201	
	Benzyl iodide	6.1	UN2653	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Benzyl dimethylamine	8 (3)	UN2619	II	CORROSIVE, FLAMMABLE LIQUID	B2, IB2, T7, TP2	154	202	
	Benzylidene chloride	6.1	UN1886	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Beryllium compounds, n.o.s.	6.1	UN1566	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Beryllium compounds, n.o.s.	6.1	UN1566	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Beryllium nitrate	5.1 (6.1)	UN2464	II	OXIDIZER, POISON	IB8, IP2, IP4, T3, TP33	152	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Beryllium, powder	6.1 (4.1)	UN1567	II	POISON, FLAMMABLE SOLID	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Bicyclo [2,2,1] hepta-2,5-diene, stabilized or 2,5-Norbornadiene, stabilized	3	UN2251	II	FLAMMABLE LIQUID	IB2, T7, TP2	150	202	
	Biological substance, Category B		UN3373		NOT APPLICABLE	A82	134	199	Not Accepted by FedEx Ground
	<i>Biphenyl triozonide</i>	Forbidden							Not Accepted by FedEx Ground
	Bipyridilium pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2782	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Bipyridilium pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2782	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Bipyridilium pesticides, liquid, toxic	6.1	UN3016	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Bipyridilium pesticides, liquid, toxic	6.1	UN3016	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Bipyridilium pesticides, liquid, toxic	6.1	UN3016	III	POISON	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Bipyridilium pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3015	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Bipyridilium pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3015	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Bipyridilium pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3015	III	POISON, FLAMMABLE LIQUID	B1, IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Bipyridilium pesticides, solid, toxic	6.1	UN2781	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Bipyridilium pesticides, solid, toxic	6.1	UN2781	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Bipyridilium pesticides, solid, toxic	6.1	UN2781	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Bis (Aminopropyl) piperazine, see Corrosive liquid, n.o.s.</i>								NA
	Bisulfate, aqueous solution	8	UN2837	II	CORROSIVE	A7, B2, IB2, N34, T7, TP2	154	202	
	Bisulfate, aqueous solution	8	UN2837	III	CORROSIVE	A7, IB3, N34, T4, TP1	154	203	
	Bisulfites, aqueous solutions, n.o.s.	8	UN2693	III	CORROSIVE	IB3, T7, TP1, TP28	154	203	
	Black powder, compressed or Gunpowder, compressed or Black powder, in pellets or Gunpowder, in pellets	1.1D	UN0028	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Black powder or Gunpowder, granular or as a meal	1.1D	UN0027	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
D	Black powder for small arms	4.1	NA0027	I	FLAMMABLE SOLID	70	None	170	
	<i>Blasting agent, n.o.s., see Explosives, blasting etc</i>								NA
	<i>Blasting cap assemblies, see Detonator assemblies, non-electric, for blasting</i>								NA
	<i>Blasting caps, electric, see Detonators, electric for blasting</i>								NA
	<i>Blasting caps, non-electric, see Detonators, non-electric, for blasting</i>								NA
	<i>Bleaching powder, see Calcium hypochlorite mixtures, etc</i>								NA
I	Blue asbestos (Crocidolite) or Brown asbestos (amosite, mysorite)	9	UN2212	II	CLASS 9	156, IB8, IP2, IP4, T3, TP33	155	216	
	Bombs, photo-flash	1.1F	UN0037	II	EXPLOSIVE 1.1F			62	Not Accepted by FedEx Ground
	Bombs, photo-flash	1.1D	UN0038	II	EXPLOSIVE 1.1D			62	Not Accepted by FedEx Ground
	Bombs, photo-flash	1.2G	UN0039	II	EXPLOSIVE 1.2G			62	Not Accepted by FedEx Ground
	Bombs, photo-flash	1.3G	UN0299	II	EXPLOSIVE 1.3G			62	Not Accepted by FedEx Ground
	Bombs, smoke, non-explosive, with corrosive liquid, without initiating device	8	UN2028	II	CORROSIVE		None	160	
	Bombs, with bursting charge	1.1F	UN0033	II	EXPLOSIVE 1.1F			62	Not Accepted by FedEx Ground
	Bombs, with bursting charge	1.1D	UN0034	II	EXPLOSIVE 1.1D			62	Not Accepted by FedEx Ground
	Bombs, with bursting charge	1.2D	UN0035	II	EXPLOSIVE 1.2D			62	Not Accepted by FedEx Ground
	Bombs, with bursting charge	1.2F	UN0291	II	EXPLOSIVE 1.2F			62	Not Accepted by FedEx Ground
	Bombs with flammable liquid, with bursting charge	1.1J	UN0399	II	EXPLOSIVE 1.1J			62	Not Accepted by FedEx Ground
	Bombs with flammable liquid, with bursting charge	1.2J	UN0400	II	EXPLOSIVE 1.2J			62	Not Accepted by FedEx Ground
	Boosters with detonator	1.1B	UN0225	II	EXPLOSIVE 1.1B		None	62	Not Accepted by FedEx Ground
	Boosters with detonator	1.2B	UN0268	II	EXPLOSIVE 1.2B		None	62	Not Accepted by FedEx Ground
	Boosters, without detonator	1.1D	UN0042	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Boosters, without detonator	1.2D	UN0283	II	EXPLOSIVE 1.2D		None	62	Not Accepted by FedEx Ground
	<i>Borate and chlorate mixtures, see Chlorate and borate mixtures</i>								NA
	Borneol	4.1	UN1312	III	FLAMMABLE SOLID	A1, IB8, IP3, T1, TP33	None	213	
+	Boron tribromide	8 (6.1)	UN2692	I	CORROSIVE, POISON	2, B9, B14, B32, B74, N34, T20, TP2, TP12, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Boron trifluoride	2.3 (8)	UN1741		POISON GAS, CORROSIVE	3, B9, B14	None	304	Not Accepted by FedEx Ground
	Boron trifluoride	2.3	UN1008		POISON GAS	2, B9, B14	None	302	Not Accepted by FedEx Ground
	Boron trifluoride acetic acid complex, liquid	8	UN1742	II	CORROSIVE	B2, B6, IB2, T8, TP2, TP12	154	202	
	Boron trifluoride acetic acid complex, solid	8	UN3419	II	CORROSIVE	B2, B6, IB8, IP2, IP4, T3, TP33	154	212	
	Boron trifluoride diethyl etherate	8 (3)	UN2604	I	CORROSIVE, FLAMMABLE LIQUID	A3, A19, T10, TP2	None	201	
	Boron trifluoride dihydrate	8	UN2851	II	CORROSIVE	IB2, T7, TP2	154	212	
	Boron trifluoride dimethyl etherate	4.3 (8, 3)	UN2965	I	DANGEROUS WHEN WET, CORROSIVE, FLAMMABLE LIQUID	A19, T10, TP2, TP7	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Boron trifluoride propionic acid complex, liquid	8	UN1743	II	CORROSIVE	B2, IB2, T8, TP2, TP12	154	202	
	Boron trifluoride propionic acid complex, solid	8	UN3420	II	CORROSIVE	B2, IB8, IP2, IP4, T3, TP33	154	212	
	<i>Box toe gum, see Nitrocellulose etc</i>								NA
	Bromates, inorganic, aqueous solution, n.o.s.	5.1	UN3213	II	OXIDIZER	IB2, T4, TP1	152	202	
	Bromates, inorganic, aqueous solution, n.o.s.	5.1	UN3213	III	OXIDIZER	IB2, T4, TP1	152	203	
	Bromates, inorganic, n.o.s.	5.1	UN1450	II	OXIDIZER	IB8, IP2, IP4, T3, TP33	152	212	
+	Bromine	8 (6.1)	UN1744	I	CORROSIVE, POISON	1, B9, B64, B85, N34, N43, T22, TP2, TP10, TP12, TP13	None	226	Not Accepted by FedEx Ground
	<i>Bromine azide</i>	Forbidden							Not Accepted by FedEx Ground
	Bromine chloride	2.3 (8, 5.1)	UN2901		POISON GAS, CORROSIVE, OXIDIZER	2, B9, B14, N86	None	304	Not Accepted by FedEx Ground
+	Bromine pentafluoride	5.1 (6.1, 8)	UN1745	I	OXIDIZER, POISON, CORROSIVE	1, B9, B14, B30, B72, T22, TP2, TP12, TP13, TP38, TP44	None	228	Not Accepted by FedEx Ground
+	Bromine solutions	8 (6.1)	UN1744	I	CORROSIVE, POISON	1, B9, B64, B85, N34, N43, T22, TP2, TP10, TP12, TP13	None	226	Not Accepted by FedEx Ground
+	Bromine solutions	8 (6.1)	UN1744	I	CORROSIVE, POISON	2, B9, B64, B85, N34, N43, T22, TP2, TP10, TP12, TP13	None	227	Not Accepted by FedEx Ground
+	Bromine trifluoride	5.1 (6.1, 8)	UN1746	I	OXIDIZER, POISON, CORROSIVE	2, B9, B14, B32, B74, T22, TP2, TP12, TP13, TP38, TP45	None	228	Not Accepted by FedEx Ground
	<i>4-Bromo-1,2-dinitrobenzene</i>	Forbidden							Not Accepted by FedEx Ground
	<i>4-Bromo-1,2-dinitrobenzene (unstable at 59 degrees C)</i>	Forbidden							Not Accepted by FedEx Ground
	1-Bromo-3-chloropropane	6.1	UN2688	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	1-Bromo-3-methylbutane	3	UN2341	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>1-Bromo-3-nitrobenzene (unstable at 56 degrees C)</i>	Forbidden							Not Accepted by FedEx Ground
	2-Bromo-2-nitropropane-1,3-diol	4.1	UN3241	III	FLAMMABLE SOLID	46, IB8, IP3	151	213	Not Accepted by FedEx Ground
	Bromoacetic acid, solid	8	UN3425	II	CORROSIVE	A7, IB8, IP2, IP4, N34, T3, TP33	154	212	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Bromoacetic acid solution	8	UN1938	II	CORROSIVE	A7, B2, IB2, T7, TP2	154	202	
	Bromoacetic acid solution	8	UN1938	III	CORROSIVE	B2, IB3, T7, TP2	154	203	
+	Bromoacetone	6.1 (3)	UN1569	II	POISON, FLAMMABLE LIQUID	2, T20, TP2, TP13	None	193	Not Accepted by FedEx Ground
	Bromoacetyl bromide	8	UN2513	II	CORROSIVE	B2, IB2, T8, TP2, TP12	154	202	
	Bromobenzene	3	UN2514	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Bromobenzyl cyanides, liquid	6.1	UN1694	I	POISON	T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Bromobenzyl cyanides, solid	6.1	UN3449	I	POISON	T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	1-Bromobutane	3	UN1126	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	2-Bromobutane	3	UN2339	II	FLAMMABLE LIQUID	B1, IB2, T4, TP1	150	202	
	Bromochloromethane	6.1	UN1887	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2-Bromoethyl ethyl ether	3	UN2340	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Bromoform	6.1	UN2515	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Bromomethylpropanes	3	UN2342	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	2-Bromopentane	3	UN2343	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Bromopropanes	3	UN2344	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Bromopropanes	3	UN2344	III	FLAMMABLE LIQUID	IB3, T2, TP1	150	203	
	3-Bromopropyne	3	UN2345	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>Bromosilane</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Bromotoluene-alpha, see Benzyl bromide</i>								NA
	Bromotrifluoroethylene	2.1	UN2419		FLAMMABLE GAS		None	304	
	Bromotrifluoromethane or Refrigerant gas, R 13B1.	2.2	UN1009		NONFLAMMABLE GAS	T50	306	304	
	Brucine	6.1	UN1570	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Bursters, explosive	1.1D	UN0043	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Butadienes, stabilized or Butadienes and Hydrocarbon mixture, stabilized containing more than 40% butadienes	2.1	UN1010		FLAMMABLE GAS	T50	306	304	
	Butane see also Petroleum gases, liquefied	2.1	UN1011		FLAMMABLE GAS	19, T50	306	304	
	<i>Butane, butane mixtures and mixtures having similar properties in cartridges each not exceeding 500 grams, see Receptacles, etc</i>								NA
	Butanedione	3	UN2346	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>1,2,4-Butanetriol trinitrate</i>	Forbidden							Not Accepted by FedEx Ground
	Butanols	3	UN1120	II	FLAMMABLE LIQUID	IB2, T4, TP1, TP29	150	202	
	Butanols	3	UN1120	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>tert-Butoxycarbonyl azide</i>	Forbidden							Not Accepted by FedEx Ground
	Butyl acetates	3	UN1123	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Butyl acetates	3	UN1123	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Butyl acid phosphate	8	UN1718	III	CORROSIVE	IB3, T4, TP1	154	203	
	Butyl acrylates, stabilized	3	UN2348	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>Butyl alcohols, see Butanols</i>								NA
	Butyl benzenes	3	UN2709	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>n-Butyl bromide, see 1-Bromobutane</i>								NA
	<i>n-Butyl chloride, see Chlorobutanes</i>								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
D	sec-Butyl chloroformate	6.1 (3, 8)	NA2742	I	POISON, FLAMMABLE LIQUID, CORROSIVE	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	n-Butyl chloroformate	6.1 (8, 3)	UN2743	I	POISON, CORROSIVE, FLAMMABLE LIQUID	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	<i>Butyl ethers, see Dibutyl ethers</i>								NA
	<i>Butyl ethyl ether, see Ethyl butyl ether</i>								NA
	n-Butyl formate	3	UN1128	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>tert-Butyl hydroperoxide, with more than 90 percent with water</i>	Forbidden							Not Accepted by FedEx Ground
	tert-Butyl hypochlorite	4.2 (8)	UN3255	I	SPONTANEOUSLY COMBUSTIBLE, CORROSIVE		None	211	Not Accepted by FedEx Ground
	N-n-Butyl imidazole	6.1	UN2690	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	tert-Butyl isocyanate	6.1 (3)	UN2484	I	POISON, FLAMMABLE LIQUID	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	Not Accepted by FedEx Ground
	n-Butyl isocyanate	6.1 (3)	UN2485	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Butyl mercaptans	3	UN2347	II	FLAMMABLE LIQUID	A3, A6, IB2, T4, TP1	150	202	
	n-Butyl methacrylate, stabilized	3	UN2227	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Butyl methyl ether	3	UN2350	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Butyl nitrites	3	UN2351	I	FLAMMABLE LIQUID	T11, TP1, TP8, TP27	150	201	
	Butyl nitrites	3	UN2351	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Butyl nitrites	3	UN2351	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>tert-Butyl peroxyacetate, with more than 76 percent in solution</i>	Forbidden							Not Accepted by FedEx Ground
	<i>n-Butyl peroxydicarbonate, with more than 52 percent in solution</i>	Forbidden							Not Accepted by FedEx Ground
	<i>tert-Butyl peroxyisobutyrate, with more than 77 percent in solution</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Butyl phosphoric acid, see Butyl acid phosphate</i>								NA
	Butyl propionates	3	UN1914	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	5-tert-Butyl-2,4,6-trinitro-m-xylene or Musk xylene	4.1	UN2956	III	FLAMMABLE SOLID	159	None	223	
	Butyl vinyl ether, stabilized	3	UN2352	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	n-Butylamine	3 (8)	UN1125	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1	150	202	
	N-Butylaniline	6.1	UN2738	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	tert-Butylcyclohexylchloroformate	6.1	UN2747	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Butylene see also Petroleum gases, liquefied	2.1	UN1012		FLAMMABLE GAS	19, T50	306	304	
	1,2-Butylene oxide, stabilized	3	UN3022	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Butyltoluenes	6.1	UN2667	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Butyltrichlorosilane	8 (3)	UN1747	II	CORROSIVE, FLAMMABLE LIQUID	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	1,4-Butynediol	6.1	UN2716	III	POISON	A1, IB8, IP3, T1, TP33	None	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Butyraldehyde	3	UN1129	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Butyraldoxime	3	UN2840	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Butyric acid	8	UN2820	III	CORROSIVE	IB3, T4, TP1	154	203	
	Butyric anhydride	8	UN2739	III	CORROSIVE	IB3, T4, TP1	154	203	
	Butyronitrile	3 (6.1)	UN2411	II	FLAMMABLE LIQUID, POISON	IB2, T7, TP1, TP13	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Butyryl chloride	3 (8)	UN2353	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T8, TP2, TP12, TP13	150	202	
	Cacodylic acid	6.1	UN1572	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	Cadmium compounds	6.1	UN2570	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Cadmium compounds	6.1	UN2570	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Cadmium compounds	6.1	UN2570	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Caesium hydroxide	8	UN2682	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Caesium hydroxide solution	8	UN2681	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	Caesium hydroxide solution	8	UN2681	III	CORROSIVE	IB3, T4, TP1	154	203	
	Calcium	4.3	UN1401	II	DANGEROUS WHEN WET	IB7, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Calcium arsenate	6.1	UN1573	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	Calcium arsenate and calcium arsenite, mixtures, solid	6.1	UN1574	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	<i>Calcium bisulfite solution, see Bisulfites, aqueous solutions, n.o.s.</i>								NA
	Calcium carbide	4.3	UN1402	I	DANGEROUS WHEN WET	A1, A8, B55, B59, IB4, IP1, N34, T9, TP7, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Calcium carbide	4.3	UN1402	II	DANGEROUS WHEN WET	A1, A8, B55, B59, IB7, IP2, N34, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Calcium chlorate	5.1	UN1452	II	OXIDIZER	A9, IB8, IP2, IP4, N34, T3, TP33	152	212	
	Calcium chlorate aqueous solution	5.1	UN2429	II	OXIDIZER	A2, IB2, N41, T4, TP1	152	202	
	Calcium chlorate aqueous solution	5.1	UN2429	III	OXIDIZER	A2, IB2, N41, T4, TP1	152	203	
	Calcium chlorite	5.1	UN1453	II	OXIDIZER	A9, IB8, IP2, IP4, N34, T3, TP33	152	212	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Calcium cyanamide with more than 0.1 percent of calcium carbide	4.3	UN1403	III	DANGEROUS WHEN WET	A1, A19, IB8, IP4, T1, TP33	151	213	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Calcium cyanide	6.1	UN1575	I	POISON	IB7, IP1, N79, N80, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Calcium dithionite or Calcium hydrosulfite	4.2	UN1923	II	SPONTANEOUSLY COMBUSTIBLE	A19, A20, IB6, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
	Calcium hydride	4.3	UN1404	I	DANGEROUS WHEN WET	A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Calcium hydrosulfite, see Calcium dithionite								NA
	Calcium hypochlorite, dry or Calcium hypochlorite mixtures dry with more than 39 percent available chlorine (8.8 percent available oxygen)	5.1	UN1748	II	OXIDIZER	165, 166, A7, A9, IB8, IP2, IP4, IP13, N34, W9	152	212	Not to exceed 10 lb. (4.45kg) per package- see RQ Table
	Calcium hypochlorite, dry or Calcium hypochlorite mixtures dry with more than 39 percent available chlorine (8.8 percent available oxygen)	5.1	UN1748	III	OXIDIZER	165, 171, A7, A9, IB8, IP4, IP13, N34, W9	152	213	Not to exceed 10 lb. (4.45kg) per package- see RQ Table
	Calcium hypochlorite, hydrated or Calcium hypochlorite, hydrated mixtures, with not less than 5.5 percent but not more than 16 percent water	5.1	UN2880	II	OXIDIZER	165, IB8, IP2, IP4, IP13, W9	152	212	Not to exceed 10 lb. (4.45kg) per package- see RQ Table
	Calcium hypochlorite mixtures, dry, with more than 10 percent but not more than 39 percent available chlorine	5.1	UN2208	III	OXIDIZER	165, A1, A29, IB8, IP3, IP13, N34, W9	152	213	Not to exceed 10 lb. (4.45kg) per package- see RQ Table
	Calcium manganese silicon	4.3	UN2844	III	DANGEROUS WHEN WET	A1, A19, IB8, IP2, IP4, T1, TP33	151	213	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Calcium nitrate	5.1	UN1454	III	OXIDIZER	34, IB8, IP3, T1, TP33	152	213	
A	Calcium oxide	8	UN1910	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	May not be regulated via highway
	Calcium perchlorate	5.1	UN1455	II	OXIDIZER	IB6, IP2, T3, TP33	152	212	
	Calcium permanganate	5.1	UN1456	II	OXIDIZER	IB6, IP2, T3, TP33	152	212	
	Calcium peroxide	5.1	UN1457	II	OXIDIZER	IB6, IP2, T3, TP33	152	212	
	Calcium phosphide	4.3 (6.1)	UN1360	I	DANGEROUS WHEN WET, POISON	A8, A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Calcium, pyrophoric or Calcium alloys, pyrophoric	4.2	UN1855	I	SPONTANEOUSLY COMBUSTIBLE		None	187	Not Accepted by FedEx Ground
	Calcium resinate	4.1	UN1313	III	FLAMMABLE SOLID	A1, A19, IB6, T1, TP33	None	213	
	Calcium resinate, fused	4.1	UN1314	III	FLAMMABLE SOLID	A1, A19, IB4, T1, TP33	None	213	
	Calcium selenate, see Selenates or Selenites								NA
	Calcium silicide	4.3	UN1405	II	DANGEROUS WHEN WET	A19, IB7, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Calcium silicide	4.3	UN1405	III	DANGEROUS WHEN WET	A1, A19, IB8, IP4, T1, TP33	151	213	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Camphor oil	3	UN1130	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Camphor, synthetic	4.1	UN2717	III	FLAMMABLE SOLID	A1, IB8, IP3, T1, TP33	None	213	
	Cannon primers, see Primers, tubular								NA
	Caproic acid	8	UN2829	III	CORROSIVE	IB3, T4, TP1	154	203	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	<i>Caps, blasting, see Detonators, etc</i>								NA
	Carbamate pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2758	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Carbamate pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2758	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Carbamate pesticides, liquid, toxic	6.1	UN2992	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Carbamate pesticides, liquid, toxic	6.1	UN2992	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Carbamate pesticides, liquid, toxic	6.1	UN2992	III	POISON	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Carbamate pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN2991	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Carbamate pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN2991	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Carbamate pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN2991	III	POISON, FLAMMABLE LIQUID	B1, IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Carbamate pesticides, solid, toxic	6.1	UN2757	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Carbamate pesticides, solid, toxic	6.1	UN2757	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Carbamate pesticides, solid, toxic	6.1	UN2757	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Carbolic acid, see Phenol, solid or Phenol, molten Carbolic acid solutions, see Phenol solutions</i>								NA
I	Carbon, activated	4.2	UN1362	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
I	Carbon, animal or vegetable origin	4.2	UN1361	II	SPONTANEOUSLY COMBUSTIBLE	IB6, T3, TP33	None	212	Not Accepted by FedEx Ground
	Carbon, animal or vegetable origin	4.2	UN1361	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
	<i>Carbon bisulfide, see Carbon disulfide</i>								NA
	Carbon dioxide	2.2	UN1013		NONFLAMMABLE GAS		306	302, 304	
	Carbon dioxide, refrigerated liquid	2.2	UN2187		NONFLAMMABLE GAS	T75, TP5	306	304	
A W	Carbon dioxide, solid or Dry ice	None	UN1845	III	NONE		217	217	
	Carbon disulfide	3 (6.1)	UN1131	I	FLAMMABLE LIQUID, POISON	B16, T14, TP2, TP7, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Carbon monoxide, compressed	2.3 (2.1)	UN1016		POISON GAS, FLAMMABLE GAS	4	None	302	Not Accepted by FedEx Ground
D	Carbon monoxide, refrigerated liquid (cryogenic liquid)	2.3 (2.1)	NA9202		POISON GAS, FLAMMABLE GAS	4, T75, TP5	None	316	Not Accepted by FedEx Ground
	Carbon tetrabromide	6.1	UN2516	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Carbon tetrachloride	6.1	UN1846	II	POISON	IB2, N36, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	<i>Carbonyl chloride, see Phosgene</i>								NA
	Carbonyl fluoride	2.3 (8)	UN2417		POISON GAS, CORROSIVE	2	None	302	Not Accepted by FedEx Ground
	Carbonyl sulfide	2.3 (2.1)	UN2204		POISON GAS, FLAMMABLE GAS	3, B14	None	304	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	<i>Cartridge cases, empty primed, see Cases, cartridge, empty, with primer</i>								NA
	<i>Cartridges, actuating, for aircraft ejector seat catapult, fire extinguisher, canopy removal or apparatus, see Cartridges, power device</i>								NA
	<i>Cartridges, explosive, see Charges, demolition</i>								NA
	<i>Cartridges, sporting, see Cartridges for weapons, inert projectile, or Cartridges, small arms</i>								NA
	Cartridges, flash	1.1G	UN0049	II	EXPLOSIVE 1.1G		None	62	Not Accepted by FedEx Ground
	Cartridges, flash	1.3G	UN0050	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	Cartridges for weapons, blank	1.1C	UN0326	II	EXPLOSIVE 1.1C		None	62	Not Accepted by FedEx Ground
	Cartridges for weapons, blank	1.2C	UN0413	II	EXPLOSIVE 1.2C		None	62	Not Accepted by FedEx Ground
	Cartridges for weapons, blank or Cartridges, small arms, blank	None	UN0014	II	NONE		63	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cartridges for weapons, blank or Cartridges, small arms, blank	1.3C	UN0327	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Cartridges for weapons, blank or Cartridges, small arms, blank	1.4C	UN0338	II	EXPLOSIVE 1.4C		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cartridges for weapons, inert projectile	1.2C	UN0328	II	EXPLOSIVE 1.2C		None	62	Not Accepted by FedEx Ground
	Cartridges for weapons, inert projectile or Cartridges, small arms	None	UN0012	II	NONE		63	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cartridges for weapons, inert projectile or Cartridges, small arms	1.4C	UN0339	II	EXPLOSIVE 1.4C		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cartridges for weapons, inert projectile or Cartridges, small arms	1.3C	UN0417	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Cartridges for weapons, with bursting charge	1.1F	UN0005	II	EXPLOSIVE 1.1F		None	62	Not Accepted by FedEx Ground
	Cartridges for weapons, with bursting charge	1.1E	UN0006	II	EXPLOSIVE 1.1E		None	62	Not Accepted by FedEx Ground
	Cartridges for weapons, with bursting charge	1.2F	UN0007	II	EXPLOSIVE 1.2F		None	62	Not Accepted by FedEx Ground
	Cartridges for weapons, with bursting charge	1.2E	UN0321	II	EXPLOSIVE 1.2E		None	62	Not Accepted by FedEx Ground
	Cartridges for weapons, with bursting charge	1.4F	UN0348	II	EXPLOSIVE 1.4F		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cartridges for weapons, with bursting charge	1.4E	UN0412	II	EXPLOSIVE 1.4E		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cartridges, oil well	1.3C	UN0277	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Cartridges, oil well	1.4C	UN0278	II	EXPLOSIVE 1.4C		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cartridges, power device	1.3C	UN0275	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Cartridges, power device	1.4C	UN0276	II	EXPLOSIVE 1.4C	110	None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cartridges, power device	1.4S	UN0323	II	EXPLOSIVE 1.4S	110	63	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cartridges, power device	1.2C	UN0381	II	EXPLOSIVE 1.2C		None	62	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Cartridges, safety, blank, see Cartridges for weapons, blank (UN 0014)								NA
	Cartridges, safety, see Cartridges for weapons, inert projectile, or Cartridges, small arms or Cartridges, power device (UN 0323)								NA
	Cartridges, signal	1.3G	UN0054	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	Cartridges, signal	1.4G	UN0312	II	EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cartridges, signal	1.4S	UN0405	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
D	Cartridges, small arms	None					63	None	
D	Cartridges power device (used to project fastening devices)	None					63	None	See FedEx Ground HazMat Shipping Guide
	Cartridges, starter, jet engine, see Cartridges, power device								NA
	Cases, cartridge, empty with primer								NA
	Cases, cartridges, empty with primer	1.4S	UN0055	II	EXPLOSIVE 1.4S	50	None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cases, combustible, empty, without primer	1.4C	UN0379	II	EXPLOSIVE 1.4C	50	None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cases, combustible, empty, without primer	1.4C	UN0446	II	EXPLOSIVE 1.4C		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cases, combustible, empty, without primer	1.3C	UN0447	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Casinghead gasoline see Gasoline								NA
A W	Castor beans or Castor meal or Castor pomace or Castor flake	None	UN2969	II	NONE	IB8, IP2, IP4, T3, TP33	155	204	
G	Caustic alkali liquids, n.o.s.	8	UN1719	II	CORROSIVE	B2, IB2, T11, TP2, TP27	154	202	
G	Caustic alkali liquids, n.o.s.	8	UN1719	III	CORROSIVE	IB3, T7, TP1, TP28	154	203	
	Caustic potash, see Potassium hydroxide etc								NA
	Caustic soda, (etc.) see Sodium hydroxide etc								NA
	Cells, containing sodium	4.3	UN3292	II	DANGEROUS WHEN WET		189	189	Not Accepted by FedEx Ground
	Celluloid, in block, rods, rolls, sheets, tubes, etc., except scrap	4.1	UN2000	III	FLAMMABLE SOLID		None	213	
	Celluloid, scrap	4.2	UN2002	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3	None	213	Not Accepted by FedEx Ground
	Cement, see Adhesives containing flammable liquid								NA
	Cerium, slabs, ingots, or rods	4.1	UN1333	II	FLAMMABLE SOLID	IB8, IP2, IP4, N34	None	212	
	Cerium, turnings or gritty powder	4.3	UN3078	II	DANGEROUS WHEN WET	A1, IB7, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Cesium or Caesium	4.3	UN1407	I	DANGEROUS WHEN WET	A7, A19, IB4, IP1, N34, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Cesium nitrate or Caesium nitrate	5.1	UN1451	III	OXIDIZER	A1, A29, IB8, IP3, T1, TP33	152	213	
D	Charcoal briquettes, shell, screenings, wood, etc.	4.2	NA1361	III	SPONTANEOUSLY COMBUSTIBLE	IB8, T1, TP33	151	213	Accepted only packaged under 49CFR 173.151
	Charges, bursting, plastics bonded	1.1D	UN0457	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Charges, bursting, plastics bonded	1.2D	UN0458	II	EXPLOSIVE 1.2D		None	62	Not Accepted by FedEx Ground
	Charges, bursting, plastics bonded	1.4D	UN0459	II	EXPLOSIVE 1.4D		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Charges, bursting, plastics bonded	1.4S	UN0460	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Charges, demolition	1.1D	UN0048	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Charges, depth	1.1D	UN0056	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Charges, expelling, explosive, for fire extinguishers, see Cartridges, power device								NA
	Charges, explosive, commercial without detonator	1.1D	UN0442	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Charges, explosive, commercial without detonator	1.2D	UN0443	II	EXPLOSIVE 1.2D		None	62	Not Accepted by FedEx Ground
	Charges, explosive, commercial without detonator	1.4D	UN0444	II	EXPLOSIVE 1.4D		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Charges, explosive, commercial without detonator	1.4S	UN0445	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Charges, propelling	1.1C	UN0271	II	EXPLOSIVE 1.1C		None	62	Not Accepted by FedEx Ground
	Charges, propelling	1.3C	UN0272	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Charges, propelling	1.2C	UN0415	II	EXPLOSIVE 1.2C		None	62	Not Accepted by FedEx Ground
	Charges, propelling	1.4C	UN0491	II	EXPLOSIVE 1.4C		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Charges, propelling, for cannon	1.3C	UN0242	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Charges, propelling, for cannon	1.1C	UN0279	II	EXPLOSIVE 1.1C		None	62	Not Accepted by FedEx Ground
	Charges, propelling, for cannon	1.2C	UN0414	II	EXPLOSIVE 1.2C		None	62	Not Accepted by FedEx Ground
	Charges, shaped, flexible, linear	1.4D	UN0237	II	EXPLOSIVE 1.4D		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Charges, shaped, flexible, linear	1.1D	UN0288	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Charges, shaped, without detonator	1.1D	UN0059	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Charges, shaped, without detonator	1.2D	UN0439	II	EXPLOSIVE 1.2D		None	62	Not Accepted by FedEx Ground
	Charges, shaped, without detonator	1.4D	UN0440	II	EXPLOSIVE 1.4D		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Charges, shaped, without detonator	1.4S	UN0441	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Charges, supplementary explosive	1.1D	UN0060	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
D	Chemical kit	8	NA1760	II	CORROSIVE		154	161	
	Chemical kits	9	UN3316		CLASS 9	15	161	161	
	Chloral, anhydrous, stabilized	6.1	UN2075	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Chlorate and borate mixtures	5.1	UN1458	II	OXIDIZER	A9, IB8, IP2, IP4, N34, T3, TP33	152	212	
	Chlorate and borate mixtures	5.1	UN1458	III	OXIDIZER	A9, IB8, IP3, N34, T1, TP33	152	213	
	Chlorate and magnesium chloride mixture solid	5.1	UN1459	II	OXIDIZER	A9, IB8, IP2, IP4, N34, T3, TP33	152	212	
	Chlorate and magnesium chloride mixture solid	5.1	UN1459	III	OXIDIZER	A9, IB8, IP3, N34, T1, TP33	152	213	
	Chlorate and magnesium chloride mixture solution	5.1	UN3407	II	OXIDIZER	A9, IB2, N34, T4, TP1	152	202	
	Chlorate and magnesium chloride mixture solution	5.1	UN3407	III	OXIDIZER	A9, IB2, N34, T4, TP1	152	203	
	<i>Chlorate of potash, see Potassium chlorate</i>								NA
	<i>Chlorate of soda, see Sodium chlorate</i>								NA
	Chlorates, inorganic, aqueous solution, n.o.s.	5.1	UN3210	II	OXIDIZER	IB2, T4, TP1	152	202	
	Chlorates, inorganic, aqueous solution, n.o.s.	5.1	UN3210	III	OXIDIZER	IB2, T4, TP1	152	203	
	Chlorates, inorganic, n.o.s.	5.1	UN1461	II	OXIDIZER	A9, IB6, IP2, N34, T3, TP33	152	212	
	Chloric acid aqueous solution, with not more than 10 percent chloric acid	5.1	UN2626	II	OXIDIZER	IB2, T4, TP1	None	229	Not Accepted by FedEx Ground
	<i>Chloride of phosphorus, see Phosphorus trichloride</i>								NA
	<i>Chloride of sulfur, see Sulfur chloride</i>								NA
	<i>Chlorinated lime, see Calcium hypochlorite mixtures, etc</i>								NA
	Chlorine	2.3 (8)	UN1017		POISON GAS, CORROSIVE	2, B9, B14, N86, T50, TP19	None	304	Not Accepted by FedEx Ground
	<i>Chlorine azide</i>	Forbidden							Not Accepted by FedEx Ground
D	Chlorine dioxide, hydrate, frozen	5.1 (6.1)	NA9191	II	OXIDIZER, POISON		None	229	Not Accepted by FedEx Ground
	<i>Chlorine dioxide (not hydrate)</i>	Forbidden							Not Accepted by FedEx Ground
	Chlorine pentafluoride	2.3 (5.1, 8)	UN2548		POISON GAS, OXIDIZER, CORROSIVE	1, B7, B9, B14, N86	None	304	Not Accepted by FedEx Ground
	Chlorine trifluoride	2.3 (5.1, 8)	UN1749		POISON GAS, OXIDIZER, CORROSIVE	2, B7, B9, B14, N86	None	304	Not Accepted by FedEx Ground
	Chlorite solution	8	UN1908	II	CORROSIVE	A3, A6, A7, B2, IB2, N34, T7, TP2, TP24	154	202	
	Chlorite solution	8	UN1908	III	CORROSIVE	A3, A6, A7, B2, IB3, N34, T4, TP2, TP24	154	203	
	Chlorites, inorganic, n.o.s.	5.1	UN1462	II	OXIDIZER	A7, IB6, IP2, N34, T3, TP33	152	212	
	1-Chloro-1,1-difluoroethane or Refrigerant gas R 142b	2.1	UN2517		FLAMMABLE GAS	T50	306	304	
	3-Chloro-4-methylphenyl isocyanate, liquid	6.1	UN2236	II	POISON	IB2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	3-Chloro-4-methylphenyl isocyanate, solid	6.1	UN3428	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	1-Chloro-1,2,2,2-tetrafluoroethane or Refrigerant gas R 124	2.2	UN1021		NONFLAMMABLE GAS	T50	306	304	
	4-Chloro-o-toluidine hydrochloride, solid	6.1	UN1579	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	4-Chloro-o-toluidine hydrochloride, solution	6.1	UN3410	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	1-Chloro-2,2,2-trifluoroethane or Refrigerant gas R 133a	2.2	UN1983		NONFLAMMABLE GAS	T50	306	304	
	Chloroacetic acid, molten	6.1 (8)	UN3250	II	POISON, CORROSIVE	IB1, T7, TP3, TP28	None	202	Not Accepted by FedEx Ground
	Chloroacetic acid, solid	6.1 (8)	UN1751	II	POISON, CORROSIVE	A3, A7, IB8, IP4, N34, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chloroacetic acid, solution	6.1 (8)	UN1750	II	POISON, CORROSIVE	A7, IB2, N34, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chloroacetone, stabilized	6.1 (3, 8)	UN1695	I	POISON, FLAMMABLE LIQUID, CORROSIVE	2, B9, B14, B32, B74, N12, N32, N34, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Chloroacetone (unstabilized)	Forbidden							Not Accepted by FedEx Ground
+	Chloroacetonitrile	6.1 (3)	UN2668	II	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, IB9, T20, TP2, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Chloroacetophenone, liquid, (CN)	6.1	UN3416	II	POISON	A3, IB2, N12, N32, N33, T7, TP2, TP13	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chloroacetophenone, solid, (CN)	6.1	UN1697	II	POISON	A3, IB8, IP2, IP4, N12, N32, N33, N34, T3, TP2, TP13, TP33	None	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chloroacetyl chloride	6.1 (8)	UN1752	I	POISON, CORROSIVE	2, B3, B8, B9, B14, B32, B74, B77, N34, N43, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Chloroanilines, liquid	6.1	UN2019	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chloroanilines, solid	6.1	UN2018	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chloroanisidines	6.1	UN2233	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chlorobenzene	3	UN1134	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Chlorobenzol, see Chlorobenzene								NA
	Chlorobenzotrifluorides	3	UN2234	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Chlorobenzyl chlorides, liquid	6.1	UN2235	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chlorobenzyl chlorides, solid	6.1	UN3427	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chlorobutanes	3	UN1127	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Chlorocresols solution	6.1	UN2669	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chlorocresols solution	6.1	UN2669	III	POISON	IB3, T7, TP2	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chlorocresols, solid	6.1	UN3437	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chlorodifluorobromomethane or Refrigerant gas R 12B1	2.2	UN1974		NONFLAMMABLE GAS	T50	306	304	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Chlorodifluoromethane and chloropentafluoroethane mixture or Refrigerant gas R 502 with fixed boiling point, with approximately 49 percent chlorodifluoromethane	2.2	UN1973		NONFLAMMABLE GAS	T50	306	304	
	Chlorodifluoromethane or Refrigerant gas R 22	2.2	UN1018		NONFLAMMABLE GAS	T50	306	304	
+	Chlorodinitrobenzenes, liquid.	6.1	UN1577	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
+	Chlorodinitrobenzenes, solid	6.1	UN3441	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2-Chloroethanal	6.1	UN2232	I	POISON	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Chloroform	6.1	UN1888	III	POISON	IB3, N36, T7, TP2	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
G	Chloroformates, toxic, corrosive, flammable, n.o.s.	6.1 (8, 3)	UN2742	II	POISON, CORROSIVE, FLAMMABLE LIQUID	5, IB1, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Chloroformates, toxic, corrosive, n.o.s.	6.1 (8)	UN3277	II	POISON, CORROSIVE	IB2, T8, TP2, TP13, TP28	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chloromethyl chloroformate	6.1 (8)	UN2745	II	POISON, CORROSIVE	IB2, T7, TP2, TP13	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chloromethyl ethyl ether	3 (6.1)	UN2354	II	FLAMMABLE LIQUID, POISON	IB2, T7, TP1, TP13	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chloronitroanilines	6.1	UN2237	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
+	Chloronitrobenzenes, liquid	6.1	UN3409	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
+	Chloronitrobenzenes, solid	6.1	UN1578	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chloronitrotoluenes, liquid	6.1	UN2433	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chloronitrotoluenes, solid	6.1	UN3457	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chloropentafluoroethane or Refrigerant gas R 115	2.2	UN1020		NONFLAMMABLE GAS	T50	306	304	
	Chlorophenolates, liquid or Phenolates, liquid	8	UN2904	III	CORROSIVE	IB3	154	203	
	Chlorophenolates, solid or Phenolates, solid	8	UN2905	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Chlorophenols, liquid	6.1	UN2021	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chlorophenols, solid	6.1	UN2020	III	POISON	IB8, IP3, T1, TP1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chlorophenyltrichlorosilane	8	UN1753	II	CORROSIVE	A7, B2, B6, IB2, N34, T7, TP2	None	202	
+	Chloropicrin	6.1	UN1580	I	POISON	2, B7, B9, B14, B32, B46, B74, T20, TP2, TP13, TP38, TP45	None	227	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Chloropicrin and methyl bromide mixtures	2.3	UN1581		POISON GAS	2, B9, B14, N86, T50	None	193	Not Accepted by FedEx Ground
	Chloropicrin and methyl chloride mixtures	2.3	UN1582		POISON GAS	2, N86, T50	None	193	Not Accepted by FedEx Ground
	<i>Chloropicrin mixture, flammable (pressure not exceeding 14.7 psia at 115 degrees F flash point below 100 degrees F) see Toxic liquids, flammable, etc</i>								NA
	Chloropicrin mixtures, n.o.s.	6.1	UN1583	I	POISON	5	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chloropicrin mixtures, n.o.s.	6.1	UN1583	II	POISON	IB2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chloropicrin mixtures, n.o.s.	6.1	UN1583	III	POISON	IB3	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
D	Chloroacetyl chloride	6.1 (8)	NA9263	I	POISON, CORROSIVE	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Chloroplatinic acid, solid	8	UN2507	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Chloroprene, stabilized	3 (6.1)	UN1991	I	FLAMMABLE LIQUID, POISON	B57, T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Chloroprene, uninhibited</i>	Forbidden							Not Accepted by FedEx Ground
	1-Chloropropane	3	UN1278	II	FLAMMABLE LIQUID	IB2, IP8, N34, T7, TP2	None	202	
	2-Chloropropane	3	UN2356	I	FLAMMABLE LIQUID	N36, T11, TP2, TP13	150	201	Not Accepted by FedEx Ground
	3-Chloropropanol-1	6.1	UN2849	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2-Chloropropene	3	UN2456	I	FLAMMABLE LIQUID	A3, N36, T11, TP2	150	201	
	2-Chloropropionic acid	8	UN2511	III	CORROSIVE	IB3, T4, TP2	154	203	
	2-Chloropyridine	6.1	UN2822	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chlorosilanes, corrosive, flammable, n.o.s	8 (3)	UN2986	II	CORROSIVE, FLAMMABLE LIQUID	T14, TP1, TP7, TP13, TP27	None	206	
	Chlorosilanes, corrosive, n.o.s.	8	UN2987	II	CORROSIVE	B2, IB2, T14, TP2, TP27	None	202	
	Chlorosilanes, flammable, corrosive, n.o.s	3 (8)	UN2985	II	FLAMMABLE LIQUID, CORROSIVE	IB1, T11, TP2, TP13, TP27	None	201	
	Chlorosilanes, toxic, corrosive, n.o.s	6.1 (8)	UN3361	II	POISON, CORROSIVE	IB1, T11, TP2, TP13	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chlorosilanes, toxic, corrosive, flammable, n.o.s	6.1 (3, 8)	UN3362	II	POISON, FLAMMABLE LIQUID, CORROSIVE	IB1, T11, TP2, TP13	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chlorosilanes, water-reactive, flammable, corrosive, n.o.s	4.3 (3, 8)	UN2988	I	DANGEROUS WHEN WET, FLAMMABLE LIQUID, CORROSIVE	A2, T10, TP2, TP7, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
+	Chlorosulfonic acid (with or without sulfur trioxide)	8 (6.1)	UN1754	I	CORROSIVE, POISON	2, B9, B10, B14, B32, B74, T20, TP2, TP12, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Chlorotoluenes	3	UN2238	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Chlorotoluidines, liquid	6.1	UN3429	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chlorotoluidines, solid	6.1	UN2239	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chlorotrifluoromethane and trifluoromethane azeotropic mixture or Refrigerant gas R 503 with approximately 60 percent chlorotrifluoromethane	2.2	UN2599		NONFLAMMABLE GAS		306	304	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Chlorotrifluoromethane or Refrigerant gas R 13	2.2	UN1022		NONFLAMMABLE GAS		306	304	
	Chromic acid solution	8	UN1755	II	CORROSIVE	B2, IB2, T8, TP2, TP12	154	202	Not to exceed 10 lb. (4.45kg) per package- see RQ Table
	Chromic acid solution	8	UN1755	III	CORROSIVE	IB3, T4, TP1, TP12	154	203	Not to exceed 10 lb. (4.45kg) per package- see RQ Table
	<i>Chromic anhydride, see Chromium trioxide, anhydrous</i>								NA
	Chromic fluoride, solid	8	UN1756	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Chromic fluoride, solution	8	UN1757	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	Chromic fluoride, solution	8	UN1757	III	CORROSIVE	IB3, T4, TP1	154	203	
	Chromium nitrate	5.1	UN2720	III	OXIDIZER	A1, A29, IB8, IP3, T1, TP33	152	213	
	Chromium oxychloride	8	UN1758	I	CORROSIVE	A3, A6, A7, B10, N34, T10, TP2, TP12	None	201	
	Chromium trioxide, anhydrous	5.1 (6.1, 8)	UN1463	II	OXIDIZER, POISON, CORROSIVE	IB8, IP4, T3, TP33	None	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Chromosulfuric acid	8	UN2240	I	CORROSIVE	A3, A6, A7, B4, B6, N34, T10, TP2, TP12, TP13	None	201	
	<i>Chromyl chloride, see Chromium oxychloride</i>								NA
	<i>Cigar and cigarette lighters, charged with fuel, see Lighters or Lighter refills containing flammable gas .</i>								NA
	<i>Coal briquettes, hot</i>	Forbidden							Not Accepted by FedEx Ground
	Coal gas, compressed	2.3 (2.1)	UN1023		POISON GAS, FLAMMABLE GAS	3	None	302	Not Accepted by FedEx Ground
	Coal tar distillates, flammable	3	UN1136	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Coal tar distillates, flammable	3	UN1136	III	FLAMMABLE LIQUID	B1, IB3, T4, TP1, TP29	150	203	
	<i>Coal tar dye, corrosive, liquid, n.o.s. see Dyes, liquid or solid, n.o.s. or Dye intermediates, liquid or solid, corrosive, n.o.s.</i>								NA
	Coating solution (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining)	3	UN1139	I	FLAMMABLE LIQUID	T11, TP1, TP8, TP27	150	201	
	Coating solution (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining)	3	UN1139	II	FLAMMABLE LIQUID	149, IB2, T4, TP1, TP8	150	202	
	Coating solution (includes surface treatments or coatings used for industrial or other purposes such as vehicle undercoating, drum or barrel lining)	3	UN1139	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Cobalt naphthenates, powder	4.1	UN2001	III	FLAMMABLE SOLID	A19, IB8, IP3, T1, TP33	151	213	
	Cobalt resinate, precipitated	4.1	UN1318	III	FLAMMABLE SOLID	A1, A19, IB6, T1, TP33	151	213	
	<i>Coke, hot</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Collodion, see Nitrocellulose etc</i>								NA
D G	Combustible liquid, n.o.s.	None	NA1993	III	NONE	IB3, T1, T4, TP1	150	203	
G	Components, explosive train, n.o.s	1.2B	UN0382	II	EXPLOSIVE 1.2B		None	62	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
G	Components, explosive train, n.o.s	1.4B	UN0383	II	EXPLOSIVE 1.4B		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
G	Components, explosive train, n.o.s	1.4S	UN0384	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
G	Components, explosive train, n.o.s	1.1B	UN0461	II	EXPLOSIVE 1.1B		None	62	Not Accepted by FedEx Ground
	<i>Composition B, see Hexolite, etc</i>								
D G	Compounds, cleaning liquid	8	NA1760	I	CORROSIVE	A7, B10, T14, TP2, TP27	None	201	NA
D G	Compounds, cleaning liquid	8	NA1760	II	CORROSIVE	B2, IB2, N37, T11, TP2, TP27	154	202	
D G	Compounds, cleaning liquid	8	NA1760	III	CORROSIVE	IB3, N37, T7, TP1, TP28	154	203	
D G	Compounds, cleaning liquid	3	NA1993	I	FLAMMABLE LIQUID	T11, TP1	150	201	
D G	Compounds, cleaning liquid	3	NA1993	II	FLAMMABLE LIQUID	IB2, T7, TP1, TP8, TP28	150	202	
D G	Compounds, cleaning liquid	3	NA1993	III	FLAMMABLE LIQUID	B1, B52, IB3, T4, TP1, TP29	150	203	
D G	Compounds, tree killing, liquid or Compounds, weed killing, liquid	8	NA1760	I	CORROSIVE	A7, B10, T14, TP2, TP27	None	201	
D G	Compounds, tree killing, liquid or Compounds, weed killing, liquid	8	NA1760	II	CORROSIVE	B2, IB2, N37, T11, TP2, TP27	154	202	
D G	Compounds, tree killing, liquid or Compounds, weed killing, liquid	8	NA1760	III	CORROSIVE	IB3, N37, T7, TP1, TP28	154	203	
D G	Compounds, tree killing, liquid or Compounds, weed killing, liquid	3	NA1993	I	FLAMMABLE LIQUID	T11, TP1	150	201	
D G	Compounds, tree killing, liquid or Compounds, weed killing, liquid	3	NA1993	II	FLAMMABLE LIQUID	IB2, T7, TP1, TP8, TP28	150	202	
D G	Compounds, tree killing, liquid or Compounds, weed killing, liquid	3	NA1993	III	FLAMMABLE LIQUID	B1, B52, IB3, T4, TP1, TP29	150	203	
D G	Compounds, tree killing, liquid or Compounds, weed killing, liquid	6.1	NA2810	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
D G	Compounds, tree killing, liquid or Compounds, weed killing, liquid	6.1	NA2810	II	POISON	IB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
D G	Compounds, tree killing, liquid or Compounds, weed killing, liquid	6.1	NA2810	III	POISON	IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Compressed gas, flammable, n.o.s.	2.1	UN1954		FLAMMABLE GAS		306	302, 305	
G	Compressed gas, n.o.s	2.2	UN1956		NONFLAMMABLE GAS	77	306, 307	302, 305	
G	Compressed gas, oxidizing, n.o.s.	2.2 (5.1)	UN3156		NONFLAMMABLE GAS, OXIDIZER	A14	306	302	
G I	Compressed gas, toxic, corrosive, n.o.s. Inhalation Hazard Zone A	2.3 (8)	UN3304		POISON GAS, CORROSIVE	1	None	192	Not Accepted by FedEx Ground
G I	Compressed gas, toxic, corrosive, n.o.s. Inhalation Hazard Zone B	2.3 (8)	UN3304		POISON GAS, CORROSIVE	2, B9, B14	None	302, 305	Not Accepted by FedEx Ground
G I	Compressed gas, toxic, corrosive, n.o.s. Inhalation Hazard Zone C	2.3 (8)	UN3304		POISON GAS, CORROSIVE	3, B14	None	302, 305	Not Accepted by FedEx Ground
G I	Compressed gas, toxic, corrosive, n.o.s. Inhalation Hazard Zone D	2.3 (8)	UN3304		POISON GAS, CORROSIVE	4	None	302, 305	Not Accepted by FedEx Ground
G I	Compressed gas, toxic, flammable, corrosive, n.o.s. Inhalation Hazard Zone A	2.3 (2.1, 8)	UN3305		POISON GAS, FLAMMABLE GAS, CORROSIVE	1	None	192	Not Accepted by FedEx Ground
G I	Compressed gas, toxic, flammable, corrosive, n.o.s. Inhalation Hazard Zone B	2.3 (2.1, 8)	UN3305		POISON GAS, FLAMMABLE GAS, CORROSIVE	2, B9, B14	None	302, 305	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
G I	Compressed gas, toxic, flammable, corrosive, n.o.s. <i>Inhalation Hazard Zone C</i>	2.3 (2.1, 8)	UN3305		POISON GAS, FLAMMABLE GAS, CORROSIVE	3, B14	None	302, 305	Not Accepted by FedEx Ground
G I	Compressed gas, toxic, flammable, corrosive, n.o.s. <i>Inhalation Hazard Zone D</i>	2.3 (2.1, 8)	UN3305		POISON GAS, FLAMMABLE GAS, CORROSIVE	4	None	302, 305	Not Accepted by FedEx Ground
G	Compressed gas, toxic, flammable, n.o.s. <i>Inhalation Hazard Zone A</i>	2.3 (2.1)	UN1953		POISON GAS, FLAMMABLE GAS	1	None	192	Not Accepted by FedEx Ground
G	Compressed gas, toxic, flammable, n.o.s. <i>Inhalation Hazard Zone B</i>	2.3 (2.1)	UN1953		POISON GAS, FLAMMABLE GAS	2, B9, B14	None	302, 305	Not Accepted by FedEx Ground
G	Compressed gas, toxic, flammable, n.o.s. <i>Inhalation Hazard Zone C</i>	2.3 (2.1)	UN1953		POISON GAS, FLAMMABLE GAS	3, B14	None	302, 305	Not Accepted by FedEx Ground
G	Compressed gas, toxic, flammable, n.o.s. <i>Inhalation Hazard Zone D</i>	2.3 (2.1)	UN1953		POISON GAS, FLAMMABLE GAS	4	None	302, 305	Not Accepted by FedEx Ground
G	Compressed gas, toxic, n.o.s. <i>Inhalation Hazard Zone A</i>	2.3	UN1955		POISON GAS	1	None	192	Not Accepted by FedEx Ground
G	Compressed gas, toxic, n.o.s. <i>Inhalation Hazard Zone B</i>	2.3	UN1955		POISON GAS	2, B9, B14	None	302, 305	Not Accepted by FedEx Ground
G	Compressed gas, toxic, n.o.s. <i>Inhalation Hazard Zone C</i>	2.3	UN1955		POISON GAS	3, B14	None	302, 305	Not Accepted by FedEx Ground
G	Compressed gas, toxic, n.o.s. <i>Inhalation Hazard Zone D</i>	2.3	UN1955		POISON GAS	4	None	302, 305	Not Accepted by FedEx Ground
G I	Compressed gas, toxic, oxidizing, corrosive, n.o.s. <i>Inhalation Hazard Zone A</i>	2.3 (5.1, 8)	UN3306		POISON GAS, OXIDIZER, CORROSIVE	1	None	192	Not Accepted by FedEx Ground
G I	Compressed gas, toxic, oxidizing, corrosive, n.o.s. <i>Inhalation Hazard Zone B</i>	2.3 (5.1, 8)	UN3306		POISON GAS, OXIDIZER, CORROSIVE	2, B9, B14	None	302, 305	Not Accepted by FedEx Ground
G I	Compressed gas, toxic, oxidizing, corrosive, n.o.s. <i>Inhalation Hazard Zone C</i>	2.3 (5.1, 8)	UN3306		POISON GAS, OXIDIZER, CORROSIVE	3, B14	None	302, 305	Not Accepted by FedEx Ground
G I	Compressed gas, toxic, oxidizing, corrosive, n.o.s. <i>Inhalation Hazard Zone D</i>	2.3 (5.1, 8)	UN3306		POISON GAS, OXIDIZER, CORROSIVE	4	None	302, 305	Not Accepted by FedEx Ground
G	Compressed gas, toxic, oxidizing, n.o.s. <i>Inhalation Hazard Zone A</i>	2.3 (5.1)	UN3303		POISON GAS, OXIDIZER	1	None	192	Not Accepted by FedEx Ground
G	Compressed gas, toxic, oxidizing, n.o.s. <i>Inhalation Hazard Zone B</i>	2.3 (5.1)	UN3303		POISON GAS, OXIDIZER	2, B9, B14	None	302, 305	Not Accepted by FedEx Ground
G	Compressed gas, toxic, oxidizing, n.o.s. <i>Inhalation Hazard Zone C</i>	2.3 (5.1)	UN3303		POISON GAS, OXIDIZER	3, B14	None	302, 305	Not Accepted by FedEx Ground
G	Compressed gas, toxic, oxidizing, n.o.s. <i>Inhalation Hazard Zone D</i>	2.3 (5.1)	UN3303		POISON GAS, OXIDIZER	4	None	302, 305	Not Accepted by FedEx Ground
D	Consumer commodity	None					156, 306	156, 306	See FedEx Ground HazMat Shipping Guide
G	Contrivances, water-activated, with burster, expelling charge or propelling charge	1.2L	UN0248	II	EXPLOSIVE 1.2L		None	62	Not Accepted by FedEx Ground
G	Contrivances, water-activated, with burster, expelling charge or propelling charge	1.3L	UN0249	II	EXPLOSIVE 1.3L		None	62	Not Accepted by FedEx Ground
	Copper acetoarsenite	6.1	UN1585	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Copper acetylde	Forbidden							Not Accepted by FedEx Ground
	Copper amine azide	Forbidden							Not Accepted by FedEx Ground
	Copper arsenite	6.1	UN1586	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Copper based pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2776	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Copper based pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2776	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Copper based pesticides, liquid, toxic	6.1	UN3010	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Copper based pesticides, liquid, toxic	6.1	UN3010	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Copper based pesticides, liquid, toxic	6.1	UN3010	III	POISON	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Copper based pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3009	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Copper based pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3009	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Copper based pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3009	III	POISON, FLAMMABLE LIQUID	B1, IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Copper based pesticides, solid, toxic	6.1	UN2775	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Copper based pesticides, solid, toxic	6.1	UN2775	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Copper based pesticides, solid, toxic	6.1	UN2775	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Copper chlorate	5.1	UN2721	II	OXIDIZER	A1, IB8, IP2, IP4, T3, TP33	152	212	
	Copper chloride	8	UN2802	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	Not to exceed 10 lb. (4.45kg) per package- see RQ Table
	Copper cyanide	6.1	UN1587	II	POISON	IB8, IP2, IP4, T3, TP33	153	204	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	<i>Copper selenate, see Selenates or Selenites</i>								NA
	<i>Copper selenite, see Selenates or Selenites</i>								NA
	<i>Copper tetramine nitrate</i>	Forbidden							Not Accepted by FedEx Ground
A W	Copra	4.2	UN1363	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, IP7	None	213	May not be regulated via highway
	Cord, detonating, flexible	1.1D	UN0065	II	EXPLOSIVE 1.1D	102	63(a)	62	Not Accepted by FedEx Ground
	Cord, detonating, flexible	1.4D	UN0289	II	EXPLOSIVE 1.4D		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cord detonating or Fuse detonating metal clad	1.2D	UN0102	II	EXPLOSIVE 1.2D		None	62	Not Accepted by FedEx Ground
	Cord, detonating or Fuse, detonating metal clad	1.1D	UN0290	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Cord, detonating, mild effect or Fuse, detonating, mild effect metal clad	1.4D	UN0104	II	EXPLOSIVE 1.4D		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Cord, igniter	1.4G	UN0066	II	EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	<i>Cordeau detonant fuse, see Cord, detonating, etc; Cord, detonating, flexible</i>								NA
	<i>Cordite, see Powder, smokeless</i>								NA
G	Corrosive liquid, acidic, inorganic, n.o.s	8	UN3264	I	CORROSIVE	A6, B10, T14, TP2, TP27	None	201	
G	Corrosive liquid, acidic, inorganic, n.o.s	8	UN3264	II	CORROSIVE	B2, IB2, T11, TP2, TP27	154	202	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
G	Corrosive liquid, acidic, inorganic, n.o.s.	8	UN3264	III	CORROSIVE	IB3, T7, TP1, TP28	154	203	
G	Corrosive liquid, acidic, organic, n.o.s.	8	UN3265	I	CORROSIVE	A6, B10, T14, TP2, TP27	None	201	
G	Corrosive liquid, acidic, organic, n.o.s.	8	UN3265	II	CORROSIVE	B2, IB2, T11, TP2, TP27	154	202	
G	Corrosive liquid, acidic, organic, n.o.s.	8	UN3265	III	CORROSIVE	IB3, T7, TP1, TP28	154	203	
G	Corrosive liquid, basic, inorganic, n.o.s.	8	UN3266	I	CORROSIVE	A6, T14, TP2, TP27	None	201	
G	Corrosive liquid, basic, inorganic, n.o.s.	8	UN3266	II	CORROSIVE	B2, IB2, T11, TP2, TP27	154	202	
G	Corrosive liquid, basic, inorganic, n.o.s.	8	UN3266	III	CORROSIVE	IB3, T7, TP1, TP28	154	203	
G	Corrosive liquid, basic, organic, n.o.s.	8	UN3267	I	CORROSIVE	A6, B10, T14, TP2, TP27	None	201	
G	Corrosive liquid, basic, organic, n.o.s.	8	UN3267	II	CORROSIVE	B2, IB2, T11, TP2, TP27	154	202	
G	Corrosive liquid, basic, organic, n.o.s.	8	UN3267	III	CORROSIVE	IB3, T7, TP1, TP28	154	203	
G	Corrosive liquid, self-heating, n.o.s.	8 (4.2)	UN3301	I	CORROSIVE, SPONTANEOUSLY COMBUSTIBLE	A6, B10	None	201	Not Accepted by FedEx Ground
G	Corrosive liquid, self-heating, n.o.s.	8 (4.2)	UN3301	II	CORROSIVE, SPONTANEOUSLY COMBUSTIBLE	B2, IB1	154	202	Not Accepted by FedEx Ground
G	Corrosive liquids, flammable, n.o.s.	8 (3)	UN2920	I	CORROSIVE, FLAMMABLE LIQUID	A6, B10, T14, TP2, TP27	None	201	
G	Corrosive liquids, flammable, n.o.s.	8 (3)	UN2920	II	CORROSIVE, FLAMMABLE LIQUID	B2, IB2, T11, TP2, TP27	None	202	
G	Corrosive liquids, n.o.s.	8	UN1760	I	CORROSIVE	A6, A7, B10, T14, TP2, TP27	None	201	
G	Corrosive liquids, n.o.s.	8	UN1760	II	CORROSIVE	B2, IB2, T11, TP2, TP27	154	202	
G	Corrosive liquids, n.o.s.	8	UN1760	III	CORROSIVE	IB3, T7, TP1, TP28	154	203	
G	Corrosive liquids, oxidizing, n.o.s.	8 (5.1)	UN3093	I	CORROSIVE, OXIDIZER	A6, A7	None	201	
G	Corrosive liquids, oxidizing, n.o.s.	8 (5.1)	UN3093	II	CORROSIVE, OXIDIZER	A6, A7, IB2	None	202	
G	Corrosive liquids, toxic, n.o.s.	8 (6.1)	UN2922	I	CORROSIVE, POISON	A6, A7, B10, T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Corrosive liquids, toxic, n.o.s.	8 (6.1)	UN2922	II	CORROSIVE, POISON	B3, IB2, T7, TP2	154	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Corrosive liquids, toxic, n.o.s.	8 (6.1)	UN2922	III	CORROSIVE, POISON	IB3, T7, TP1, TP28	154	203	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.154
G	Corrosive liquids, water-reactive, n.o.s.	8 (4.3)	UN3094	I	CORROSIVE, DANGEROUS WHEN WET	A6, A7	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Corrosive liquids, water-reactive, n.o.s.	8 (4.3)	UN3094	II	CORROSIVE, DANGEROUS WHEN WET	A6, A7	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Corrosive solid, acidic, inorganic, n.o.s.	8	UN3260	I	CORROSIVE	IB7, IP1, T6, TP33	None	211	
G	Corrosive solid, acidic, inorganic, n.o.s.	8	UN3260	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
G	Corrosive solid, acidic, inorganic, n.o.s.	8	UN3260	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
G	Corrosive solid, acidic, organic, n.o.s.	8	UN3261	I	CORROSIVE	IB7, IP1, T6, TP33	None	211	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
G	Corrosive solid, acidic, organic, n.o.s.	8	UN3261	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
G	Corrosive solid, acidic, organic, n.o.s.	8	UN3261	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
G	Corrosive solid, basic, inorganic, n.o.s.	8	UN3262	I	CORROSIVE	IB7, IP1, T6, TP33	None	211	
G	Corrosive solid, basic, inorganic, n.o.s.	8	UN3262	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
G	Corrosive solid, basic, inorganic, n.o.s.	8	UN3262	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
G	Corrosive solid, basic, organic, n.o.s.	8	UN3263	I	CORROSIVE	IB7, IP1, T6, TP33	None	211	
G	Corrosive solid, basic, organic, n.o.s.	8	UN3263	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
G	Corrosive solid, basic, organic, n.o.s.	8	UN3263	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
G	Corrosive solids, flammable, n.o.s.	8 (4.1)	UN2921	I	CORROSIVE, FLAMMABLE SOLID	IB6, T6, TP33	None	211	
G	Corrosive solids, flammable, n.o.s.	8 (4.1)	UN2921	II	CORROSIVE, FLAMMABLE SOLID	IB8, IP2, IP4, T3, TP33	None	212	
G	Corrosive solids, n.o.s.	8	UN1759	I	CORROSIVE	IB7, IP1, T6, TP33	None	211	
G	Corrosive solids, n.o.s.	8	UN1759	II	CORROSIVE	128, IB8, IP2, IP4, T3, TP33	154	212	
G	Corrosive solids, n.o.s.	8	UN1759	III	CORROSIVE	128, IB8, IP3, T1, TP33	154	213	
G	Corrosive solids, oxidizing, n.o.s.	8 (5.1)	UN3084	I	CORROSIVE, OXIDIZER	T6, TP33	None	211	
G	Corrosive solids, oxidizing, n.o.s.	8 (5.1)	UN3084	II	CORROSIVE, OXIDIZER	IB6, IP2, T3, TP33	None	212	
G	Corrosive solids, self-heating, n.o.s.	8 (4.2)	UN3095	I	CORROSIVE, SPONTANEOUSLY COMBUSTIBLE	T6, TP33	None	211	Not Accepted by FedEx Ground
G	Corrosive solids, self-heating, n.o.s.	8 (4.2)	UN3095	II	CORROSIVE, SPONTANEOUSLY COMBUSTIBLE	IB6, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
G	Corrosive solids, toxic, n.o.s.	8 (6.1)	UN2923	I	CORROSIVE, POISON	IB7, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Corrosive solids, toxic, n.o.s.	8 (6.1)	UN2923	II	CORROSIVE, POISON	IB8, IP2, IP4, T3, TP33	154	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Corrosive solids, toxic, n.o.s.	8 (6.1)	UN2923	III	CORROSIVE, POISON	IB8, IP3, T1, TP33	154	213	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.154
G	Corrosive solids, water-reactive, n.o.s.	8 (4.3)	UN3096	I	CORROSIVE, DANGEROUS WHEN WET	IB4, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Corrosive solids, water-reactive, n.o.s.	8 (4.3)	UN3096	II	CORROSIVE, DANGEROUS WHEN WET	IB6, IP2, T3, TP33	None	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
D W	Cotton	9	NA1365		CLASS 9	137, IB8, IP2, IP4, W41	None	None	
A W	Cotton waste, oily	4.2	UN1364	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, IP7	None	213	May not be regulated via highway
A I W	Cotton, wet	4.2	UN1365	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, IP7	None	204	May not be regulated via highway
	Coumarin derivative pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN3024	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Coumarin derivative pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN3024	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Coumarin derivative pesticides, liquid, toxic	6.1	UN3026	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Coumarin derivative pesticides, liquid, toxic	6.1	UN3026	II	POISON	IB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Coumarin derivative pesticides, liquid, toxic	6.1	UN3026	III	POISON	IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Coumarin derivative pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3025	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Coumarin derivative pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3025	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Coumarin derivative pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3025	III	POISON, FLAMMABLE LIQUID	B1, IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Coumarin derivative pesticides, solid, toxic	6.1	UN3027	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Coumarin derivative pesticides, solid, toxic	6.1	UN3027	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Coumarin derivative pesticides, solid, toxic	6.1	UN3027	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Cresols, liquid	6.1 (8)	UN2076	II	POISON, CORROSIVE	IB2, IP2, IP4, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Cresols, solid	6.1 (8)	UN3455	II	POISON, CORROSIVE	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Cresylic acid	6.1 (8)	UN2022	II	POISON, CORROSIVE	IB2, T7, TP2, TP13	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Crotonaldehyde or Crotonaldehyde, stabilized	6.1 (3)	UN1143	I	POISON, FLAMMABLE LIQUID	2, 175, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Crotonic acid, liquid	8	UN3472	III	CORROSIVE	IB8, T1	154	203	
	Crotonic acid, solid	8	UN2823	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Crotonylene	3	UN1144	I	FLAMMABLE LIQUID	T11, TP2	150	201	
	Cupriethylenediamine solution	8 (6.1)	UN1761	II	CORROSIVE, POISON	IB2, T7, TP2	154	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Cupriethylenediamine solution	8 (6.1)	UN1761	III	CORROSIVE, POISON	IB3, T7, TP1, TP28	154	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Cutters, cable, explosive	1.4S	UN0070	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	<i>Cyanide or cyanide mixtures, dry, see Cyanides, inorganic, solid, n.o.s.</i>								NA
	Cyanide solutions, n.o.s.	6.1	UN1935	I	POISON	B37, T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Cyanide solutions, n.o.s.	6.1	UN1935	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Cyanide solutions, n.o.s.	6.1	UN1935	III	POISON	IB3, T7, TP2, TP13, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Cyanides, inorganic, solid, n.o.s.	6.1	UN1588	I	POISON	IB7, IP1, N74, N75, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Cyanides, inorganic, solid, n.o.s.	6.1	UN1588	II	POISON	IB8, IP2, IP4, N74, N75, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Cyanides, inorganic, solid, n.o.s.	6.1	UN1588	III	POISON	IB8, IP3, N74, N75, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Cyanogen	2.3 (2.1)	UN1026		POISON GAS, FLAMMABLE GAS	2	None	304	Not Accepted by FedEx Ground
	Cyanogen bromide	6.1 (8)	UN1889	I	POISON, CORROSIVE	A6, A8, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Cyanogen chloride, stabilized	2.3 (8)	UN1589		POISON GAS, CORROSIVE	1	None	192	Not Accepted by FedEx Ground
	Cyanuric chloride	8	UN2670	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	None	212	
	Cyanuric triazide	Forbidden							Not Accepted by FedEx Ground
	Cyclobutane	2.1	UN2601		FLAMMABLE GAS		306	304	
	Cyclobutyl chloroformate	6.1 (8, 3)	UN2744	II	POISON, CORROSIVE, FLAMMABLE LIQUID	IB1, T7, TP2, TP13	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	1,5,9-Cyclododecatriene	6.1	UN2518	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Cycloheptane	3	UN2241	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Cycloheptatriene	3 (6.1)	UN2603	II	FLAMMABLE LIQUID, POISON	IB2, T7, TP1, TP13	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Cycloheptene	3	UN2242	II	FLAMMABLE LIQUID	B1, IB2, T4, TP1	150	202	
	Cyclohexane	3	UN1145	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Cyclohexanone	3	UN1915	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Cyclohexene	3	UN2256	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Cyclohexenyltrichlorosilane	8	UN1762	II	CORROSIVE	A7, B2, IB2, N34, T7, TP2, TP13	None	202	
	Cyclohexyl acetate	3	UN2243	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Cyclohexyl isocyanate	6.1 (3)	UN2488	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Cyclohexyl mercaptan	3	UN3054	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Cyclohexylamine	8 (3)	UN2357	II	CORROSIVE, FLAMMABLE LIQUID	IB2, T7, TP2	None	202	
	Cyclohexyltrichlorosilane	8	UN1763	II	CORROSIVE	A7, B2, IB2, N34, T7, TP2, TP13	None	202	
	Cyclonite and cyclotetramethylenetetranitramine mixtures, wetted or desensitized see RDX and HMX mixtures, wetted or desensitized etc								NA
	Cyclonite and HMX mixtures, wetted or desensitized see RDX and HMX mixtures, wetted or desensitized etc								NA
	Cyclonite and octogen mixtures, wetted or desensitized see RDX and HMX mixtures, wetted or desensitized etc								NA
	Cyclonite, see Cyclotrimethylenetrinitramine, etc								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Cyclooctadiene phosphines, <i>see</i> 9-Phosphabicyclononanes								NA
	Cyclooctadienes	3	UN2520	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Cyclooctatetraene	3	UN2358	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Cyclopentane	3	UN1146	II	FLAMMABLE LIQUID	IB2, T7, TP1	150	202	
	<i>Cyclopentane, methyl, see Methylcyclopentane</i>								NA
	Cyclopentanol	3	UN2244	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Cyclopentanone	3	UN2245	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Cyclopentene	3	UN2246	II	FLAMMABLE LIQUID	IB2, IP8, T7, TP2	150	202	
	Cyclopropane	2.1	UN1027		FLAMMABLE GAS	T50	306	304	
	Cyclotetramethylene tetranitramine (dry or unphlegmatized) (HMX)	Forbidden							Not Accepted by FedEx Ground
	Cyclotetramethylenetetranitramine, desensitized or Octogen, desensitized or HMX, desensitized	1.1D	UN0484	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Cyclotetramethylenetetranitramine, wetted or HMX, wetted or Octogen, wetted with not less than 15 percent water, by mass	1.1D	UN0226	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Cyclotrimethylenetrinitramine and octogen, mixtures, wetted or desensitized <i>see</i> RDX and HMX mixtures, wetted or desensitized, etc								NA
	Cyclotrimethylenetrinitramine and cyclotetramethylenetetranitramine mixtures, wetted or desensitized <i>see</i> RDX and HMX mixtures, wetted or desensitized etc								NA
	Cyclotrimethylenetrinitramine and HMX mixtures, wetted or desensitized <i>see</i> RDX and HMX mixtures, wetted or desensitized etc								NA
	Cyclotrimethylenetrinitramine, desensitized or Cyclonite, desensitized or Hexogen, desensitized or RDX, desensitized	1.1D	UN0483	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Cyclotrimethylenetrinitramine, wetted or Cyclonite, wetted or Hexogen, wetted or RDX, wetted with not less than 15 percent water by mass	1.1D	UN0072	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Cymenes	3	UN2046	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Dangerous Goods in Machinery or Dangerous Goods in Apparatus		UN3363		NONE	136, A105	None	222	
	Decaborane	4.1 (6.1)	UN1868	II	FLAMMABLE SOLID, POISON	A19, A20, IB6, IP2, T3, TP33	None	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Decahydronaphthalene	3	UN1147	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	n-Decane	3	UN2247	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Deflagrating metal salts of aromatic nitroderivatives, n.o.s.	1.3C	UN0132	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	<i>Delay electric igniter, see Igniters</i>								NA
D	Denatured alcohol	3	NA1987	II	FLAMMABLE LIQUID	172, T8	150	202	
D	Denatured alcohol	3	NA1987	III	FLAMMABLE LIQUID	172, B1, T7	150	203	
	<i>Depth charges, see Charges, depth</i>								NA
G	Desensitized explosive, liquid, n.o.s.	3	UN3379	I	FLAMMABLE LIQUID	164	None	201	
G	Desensitized explosive, solid, n.o.s.	4.1	UN3380	I	FLAMMABLE SOLID	164	None	211	
	<i>Detonating relays, see Detonators, etc</i>								NA
	Detonator assemblies, non-electric for blasting	1.1B	UN0360	II	EXPLOSIVE 1.1B		None	62	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Detonator assemblies, non-electric, for blasting	1.4B	UN0361	II	EXPLOSIVE 1.4B	103	63(f), 63(g)	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Detonator, assemblies, non-electric for blasting	1.4S	UN0500	II	EXPLOSIVE 1.4S		63(f), 63(g)	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Detonators, electric, for blasting	1.1B	UN0030	II	EXPLOSIVE 1.1B		63(f), 63(g)	62	Not Accepted by FedEx Ground
	Detonators, electric, for blasting	1.4B	UN0255	II	EXPLOSIVE 1.4B	103	63(f), 63(g)	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Detonators, electric for blasting	1.4S	UN0456	II	EXPLOSIVE 1.4S		63(f), 63(g)	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Detonators for ammunition	1.1B	UN0073	II	EXPLOSIVE 1.1B		None	62	Not Accepted by FedEx Ground
	Detonators for ammunition	1.2B	UN0364	II	EXPLOSIVE 1.2B		None	62	Not Accepted by FedEx Ground
	Detonators for ammunition	1.4B	UN0365	II	EXPLOSIVE 1.4B	103	None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Detonators for ammunition	1.4S	UN0366	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Detonators, non-electric, for blasting	1.1B	UN0029	II	EXPLOSIVE 1.1B		None	62	Not Accepted by FedEx Ground
	Detonators, non-electric, for blasting	1.4B	UN0267	II	EXPLOSIVE 1.4B	103	63(f), 63(g)	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Detonators, non-electric, for blasting	1.4S	UN0455	II	EXPLOSIVE 1.4S		63(f), 63(g)	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Deuterium, compressed	2.1	UN1957		FLAMMABLE GAS	N89	306	302	
	Devices, small, hydrocarbon gas powered or Hydrocarbon gas refills for small devices with release device	2.1	UN3150		FLAMMABLE GAS		306	304	
	Di-n-amylamine	3 (6.1)	UN2841	III	FLAMMABLE LIQUID, POISON	B1, IB3, T4, TP1	150	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Di-n-butyl peroxydicarbonate, with more than 52 percent in solution</i>	Forbidden							Not Accepted by FedEx Ground
	Di-n-butylamine	8 (3)	UN2248	II	CORROSIVE, FLAMMABLE LIQUID	IB2, T7, TP2	None	202	
	<i>2,2-Di-(tert-butylperoxy) butane, with more than 55 percent in solution</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Di-(tert-butylperoxy) phthalate, with more than 55 percent in solution</i>	Forbidden							Not Accepted by FedEx Ground
	<i>2,2-Di-(4,4-di-tert-butylperoxycyclohexyl) propane, with more than 42 percent with inert solid</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Di-2,4-dichlorobenzoyl peroxide, with more than 75 percent with water</i>	Forbidden							Not Accepted by FedEx Ground
	1,2-Di-(dimethylamino)ethane	3	UN2372	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>Di-2-ethylhexyl phosphoric acid, see Diisooctyl acid phosphate</i>								NA
	<i>Di-(1-hydroxytetrazole) (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Di-(1-naphthoyl) peroxide</i>	Forbidden							Not Accepted by FedEx Ground
	<i>a,a'-Di-(nitroxy) methylether</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Di-(beta-nitroxyethyl) ammonium nitrate</i>	Forbidden							Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Diacetone alcohol	3	UN1148	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Diacetone alcohol	3	UN1148	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>Diacetone alcohol peroxides, with more than 57 percent in solution with more than 9 percent hydrogen peroxide, less than 26 percent diacetone alcohol and less than 9 percent water; total active oxygen content more than 9 percent by mass</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Diacetyl, see Butanedione</i>								NA
	<i>Diacetyl peroxide, solid, or with more than 25 percent in solution</i>	Forbidden							Not Accepted by FedEx Ground
	Diallylamine	3 (6.1, 8)	UN2359	II	FLAMMABLE LIQUID, POISON, CORROSIVE	IB2, T7, TP1	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Diallylether	3 (6.1)	UN2360	II	FLAMMABLE LIQUID, POISON	IB2, N12, T7, TP1, TP13	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	4,4'-Diaminodiphenyl methane	6.1	UN2651	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>p-Diazidobenzene</i>	Forbidden							Not Accepted by FedEx Ground
	<i>1,2-Diazidoethane</i>	Forbidden							Not Accepted by FedEx Ground
	<i>1,1'-Diazoaminonaphthalene</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Diazoaminotetrazole (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Diazodinitrophenol (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Diazodinitrophenol, wetted with not less than 40 percent water or mixture of alcohol and water, by mass	1.1A	UN0074	II	EXPLOSIVE 1.1A	111, 117	None	62	Not Accepted by FedEx Ground
	<i>Diazodiphenylmethane</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Diazonium nitrates (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Diazonium perchlorates (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>1,3-Diazopropane</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Dibenzyl peroxydicarbonate, with more than 87 percent with water</i>	Forbidden							Not Accepted by FedEx Ground
	Dibenzylidichlorosilane	8	UN2434	II	CORROSIVE	B2, IB2, T7, TP2, TP13	154	202	
	Diborane	2.3 (2.1)	UN1911		POISON GAS, FLAMMABLE GAS	1, N89	None	302	Not Accepted by FedEx Ground
D	Diborane mixtures	2.1	NA1911		FLAMMABLE GAS	5	None	302	
	<i>Dibromoacetylene</i>	Forbidden							Not Accepted by FedEx Ground
	1,2-Dibromobutan-3-one	6.1	UN2648	II	POISON	IB2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dibromochloropropane	6.1	UN2872	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dibromochloropropane	6.1	UN2872	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
A	Dibromodifluoromethane, R12B2	None	UN1941	III	NONE	T11, TP2	155	203	
	<i>1,2-Dibromoethane, see Ethylene dibromide</i>								NA
	Dibromomethane	6.1	UN2664	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dibutyl ethers	3	UN1149	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Dibutylaminoethanol	6.1	UN2873	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>N,N'-Dichlorazodicarbonamide (salts of) (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	1,1-Dichloro-1-nitroethane	6.1	UN2650	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
D	3,5-Dichloro-2,4,6-trifluoropyridine	6.1	NA9264	I	POISON	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Dichloroacetic acid	8	UN1764	II	CORROSIVE	A3, A6, A7, B2, IB2, N34, T8, TP2, TP12	154	202	
	1,3-Dichloroacetone	6.1	UN2649	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dichloroacetyl chloride	8	UN1765	II	CORROSIVE	A3, A6, A7, B2, B6, IB2, N34, T7, TP2	154	202	
	<i>Dichloroacetylene</i>	Forbidden							Not Accepted by FedEx Ground
+	Dichloroanilines, liquid	6.1	UN1590	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dichloroanilines, solid	6.1	UN3442	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
+	o-Dichlorobenzene	6.1	UN1591	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2,2'-Dichlorodiethyl ether	6.1 (3)	UN1916	II	POISON, FLAMMABLE LIQUID	IB2, N33, N34, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dichlorodifluoromethane and difluoroethane azeotropic mixture or Refrigerant gas R 500 with approximately 74 percent dichlorodifluoromethane	2.2	UN2602		NONFLAMMABLE GAS	T50	306	304	
	Dichlorodifluoromethane or Refrigerant gas R 12	2.2	UN1028		NONFLAMMABLE GAS	T50	306	304	
	Dichlorodimethyl ether, symmetrical	6.1 (3)	UN2249	I	POISON, FLAMMABLE LIQUID		None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	1,1-Dichloroethane	3	UN2362	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>1,2-Dichloroethane, see Ethylene dichloride</i>								NA
	<i>Dichloroethyl sulfide</i>	Forbidden							Not Accepted by FedEx Ground
	1,2-Dichloroethylene	3	UN1150	II	FLAMMABLE LIQUID	IB2, T7, TP2	150	202	
	Dichlorofluoromethane or Refrigerant gas R21	2.2	UN1029		NONFLAMMABLE GAS	T50	306	304	
	Dichloroisocyanuric acid, dry or Dichloroisocyanuric acid salts	5.1	UN2465	II	OXIDIZER	28, IB8, IP4, T3, TP33	152	212	
	Dichloroisopropyl ether	6.1	UN2490	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dichloromethane	6.1	UN1593	III	POISON	IB3, IP8, N36, T7, TP2	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dichloropentanes	3	UN1152	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Dichlorophenyl isocyanates	6.1	UN2250	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dichlorophenyltrichlorosilane	8	UN1766	II	CORROSIVE	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	
	1,2-Dichloropropane	3	UN1279	II	FLAMMABLE LIQUID	IB2, N36, T4, TP1	150	202	
	1,3-Dichloropropanol-2	6.1	UN2750	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Dichloropropene and propylene dichloride mixture, see 1,2-Dichloropropane</i>								NA
	Dichloropropenes	3	UN2047	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Dichloropropenes	3	UN2047	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Dichlorosilane	2.3 (2.1, 8)	UN2189		POISON GAS, FLAMMABLE GAS, CORROSIVE	2, B9, B14	None	304	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	1,2-Dichloro-1,1,2,2- tetrafluoroethane or Refrigerant gas R 114	2.2	UN1958		NONFLAMMABLE GAS	T50	306	304	
	<i>Dichlorovinylchloroarsine</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Dicycloheptadiene, see Bicyclo [2,2,1] hepta-2,5-diene, stabilized</i>								NA
	Dicyclohexylamine	8	UN2565	III	CORROSIVE	IB3, T4, TP1	154	203	
	Dicyclohexylammonium nitrite	4.1	UN2687	III	FLAMMABLE SOLID	IB8, IP3, T1, TP33	151	213	
	Dicyclopentadiene	3	UN2048	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Didymium nitrate	5.1	UN1465	III	OXIDIZER	A1, IB8, IP3, T1, TP33	152	213	
D	Diesel fuel	None	NA1993	III	NONE	144, B1, IB3, T4, TP1, TP29	150	203	
I	Diesel fuel	3	UN1202	III	FLAMMABLE LIQUID	144, B1, IB3, T2, TP1	150	203	
	<i>Diethanol nitrosamine dinitrate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Diethoxymethane	3	UN2373	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	3,3-Diethoxypropene	3	UN2374	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Diethyl carbonate	3	UN2366	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>Diethyl cellosolve, see Ethylene glycol diethyl ether</i>								NA
	Diethyl ether or Ethyl ether	3	UN1155	I	FLAMMABLE LIQUID	T11, TP2	150	201	
	Diethyl ketone	3	UN1156	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>Diethyl peroxydicarbonate, with more than 27 percent in solution</i>	Forbidden							Not Accepted by FedEx Ground
	Diethyl sulfate	6.1	UN1594	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Diethyl sulfide	3	UN2375	II	FLAMMABLE LIQUID	IB2, T7, TP1, TP13	None	202	
	Diethylamine	3 (8)	UN1154	II	FLAMMABLE LIQUID, CORROSIVE	A3, IB2, N34, T7, TP1	150	202	
	2-Diethylaminoethanol	8 (3)	UN2686	II	CORROSIVE, FLAMMABLE LIQUID	B2, IB2, T7, TP2	None	202	
	3-Diethylamino-propylamine.	3 (8)	UN2684	III	FLAMMABLE LIQUID, CORROSIVE	B1, IB3, T4, TP1	150	203	
+	N, N-Diethylaniline	6.1	UN2432	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Diethylbenzene	3	UN2049	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Diethyldichlorosilane	8 (3)	UN1767	II	CORROSIVE, FLAMMABLE LIQUID	A7, B6, IB2, N34, T7, TP2, TP13	None	202	
	<i>Diethylene glycol dinitrate</i>	Forbidden							Not Accepted by FedEx Ground
	Diethyleneglycol dinitrate, desensitized with not less than 25 percent non-volatile water-insoluble phlegmatizer, by mass	1.1D	UN0075	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Diethylenetriamine	8	UN2079	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	N,N-Diethylethylenediamine	8 (3)	UN2685	II	CORROSIVE, FLAMMABLE LIQUID	IB2, T7, TP2	None	202	
	<i>Diethylgold bromide</i>	Forbidden							Not Accepted by FedEx Ground
	Diethylthiophosphoryl chloride	8	UN2751	II	CORROSIVE	B2, IB2, T7, TP2	None	212	
	<i>Diffuoroethanes, see 1-Chloro-1,1-difluoroethanes</i>								NA
	1,1-Difluoroethane or Refrigerant gas R 152a	2.1	UN1030		FLAMMABLE GAS	T50	306	304	
	1,1-Difluoroethylene or Refrigerant gas R 1132a	2.1	UN1959		FLAMMABLE GAS		306	304	
	Difluoromethane or Refrigerant gas R 32	2.1	UN3252		FLAMMABLE GAS	T50	306	302	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Difluorophosphoric acid, anhydrous	8	UN1768	II	CORROSIVE	A6, A7, B2, IB2, N5, N34, T8, TP2, TP12	None	202	
	2,3-Dihydropyran	3	UN2376	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>1,8-Dihydroxy-2,4,5,7-tetrahydroanthraquinone (chrysamminic acid)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Diiodoacetylene</i>	Forbidden							Not Accepted by FedEx Ground
	Diisobutyl ketone	3	UN1157	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Diisobutylamine	3 (8)	UN2361	III	FLAMMABLE LIQUID, CORROSIVE	B1, IB3, T4, TP1	150	203	
	Diisobutylene, isomeric compounds	3	UN2050	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Diisooctyl acid phosphate	8	UN1902	III	CORROSIVE	IB3, T4, TP1	154	203	
	Diisopropyl ether	3	UN1159	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Diisopropylamine	3 (8)	UN1158	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1	150	202	
	<i>Diisopropylbenzene hydroperoxide, with more than 72 percent in solution</i>	Forbidden							Not Accepted by FedEx Ground
	Diketene, stabilized	6.1 (3)	UN2521	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	1,2-Dimethoxyethane	3	UN2252	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	1,1-Dimethoxyethane	3	UN2377	II	FLAMMABLE LIQUID	IB2, T7, TP1	150	202	
	Dimethyl carbonate	3	UN1161	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>Dimethyl chlorothiophosphate, see Dimethyl thiophosphoryl chloride</i>								NA
	<i>2,5-Dimethyl-2,5-dihydroperoxy hexane, with more than 82 percent with water</i>	Forbidden							Not Accepted by FedEx Ground
	Dimethyl disulfide	3	UN2381	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Dimethyl ether	2.1	UN1033		FLAMMABLE GAS	T50	306	304	
	Dimethyl-N-propylamine	3 (8)	UN2266	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP2, TP13	150	202	
	Dimethyl sulfate	6.1 (8)	UN1595	I	POISON, CORROSIVE	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Dimethyl sulfide	3	UN1164	II	FLAMMABLE LIQUID	IB2, IP8, T7, TP2	150	202	
	Dimethyl thiophosphoryl chloride	6.1 (8)	UN2267	II	POISON, CORROSIVE	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dimethylamine, anhydrous	2.1	UN1032		FLAMMABLE GAS	N87, T50	None	304	
	Dimethylamine solution	3 (8)	UN1160	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1	150	202	
	2-Dimethylaminoacetone	3 (6.1)	UN2378	II	FLAMMABLE LIQUID, POISON	IB2, T7, TP1	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2-Dimethylaminoethanol	8 (3)	UN2051	II	CORROSIVE, FLAMMABLE LIQUID	B2, IB2, T7, TP2	154	202	
	2-Dimethylaminoethyl acrylate	6.1	UN3302	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2-Dimethylaminoethyl methacrylate	6.1	UN2522	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	N,N-Dimethylaniline	6.1	UN2253	II	POISON	IB1, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2,3-Dimethylbutane	3	UN2457	II	FLAMMABLE LIQUID	IB2, T7, TP1	150	202	
	1, 3-Dimethylbutylamine	3 (8)	UN2379	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1	150	202	
	Dimethylcarbamoyl chloride	8	UN2262	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	Dimethylcyclohexanes	3	UN2263	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	N,N-Dimethylcyclohexylamine	8 (3)	UN2264	II	CORROSIVE, FLAMMABLE LIQUID	B2, IB2, T7, TP2	154	202	
	Dimethyldichlorosilane	3 (8)	UN1162	II	FLAMMABLE LIQUID, CORROSIVE	B77, IB2, T7, TP2, TP13	None	202	
	Dimethyldiethoxysilane	3	UN2380	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Dimethyldioxanes	3	UN2707	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Dimethyldioxanes	3	UN2707	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	N,N-Dimethylformamide	3	UN2265	III	FLAMMABLE LIQUID	B1, IB3, T2, TP2	150	203	
	<i>Dimethylhexane dihydroperoxide (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Dimethylhydrazine, symmetrical	6.1 (3)	UN2382	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Dimethylhydrazine, unsymmetrical	6.1 (3, 8)	UN1163	I	POISON, FLAMMABLE LIQUID, CORROSIVE	2, B7, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	2,2-Dimethylpropane	2.1	UN2044		FLAMMABLE GAS		306	304	
	Dimethylzinc	4.2 (4.3)	UN1370	I	SPONTANEOUSLY COMBUSTIBLE, DANGEROUS WHEN WET	173, B11, B16, T21, TP2, TP7	None	181	Not Accepted by FedEx Ground
	Dinitro-o-cresol	6.1	UN1598	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>1,3-Dinitro-5,5-dimethyl hydantoin</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Dinitro-7,8-dimethylglycoluril (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>1,3-Dinitro-4,5-dinitrosobenzene</i>	Forbidden							Not Accepted by FedEx Ground
	<i>1,4-Dinitro-1,1,4,4-tetramethyloibutanetetrinitrate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>2,4-Dinitro-1,3,5-trimethylbenzene</i>	Forbidden							Not Accepted by FedEx Ground
	Dinitroanilines	6.1	UN1596	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dinitrobenzenes, liquid	6.1	UN1597	II	POISON	11, IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dinitrobenzenes, liquid	6.1	UN1597	III	POISON	11, IB3, T7, TP2	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dinitrobenzenes, solid	6.1	UN3443	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Dinitrochlorobenzene, see Chlorodinitrobenzene</i>								NA
	<i>1,2-Dinitroethane</i>	Forbidden							Not Accepted by FedEx Ground
	<i>1,1-Dinitroethane (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Dinitrogen tetroxide	2.3 (5.1, 8)	UN1067		POISON GAS, OXIDIZER, CORROSIVE	1, B7, B14, B45, B46, B61, B66, B67, B77, T50, TP21	None	336	Not Accepted by FedEx Ground
	Dinitroglycoluril or Dingu	1.1D	UN0489	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	<i>Dinitromethane</i>	Forbidden							Not Accepted by FedEx Ground
	Dinitrophenol, dry or wetted with less than 15 percent water, by mass	1.1D (6.1)	UN0076	II	EXPLOSIVE 1.1D, POISON		None	62	Not Accepted by FedEx Ground
	Dinitrophenol solutions	6.1	UN1599	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dinitrophenol solutions	6.1	UN1599	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dinitrophenol, wetted with not less than 15 percent water, by mass	4.1 (6.1)	UN1320	I	FLAMMABLE SOLID, POISON	23, A8, A19, A20, N41	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dinitrophenolates alkali metals, dry or wetted with less than 15 percent water, by mass	1.3C (6.1)	UN0077	II	EXPLOSIVE 1.3C, POISON		None	62	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Nmae	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Dinitrophenolates, wetted with not less than 15 percent water, by mass	4.1 (6.1)	UN1321	I	FLAMMABLE SOLID, POISON	23, A8, A19, A20, N41	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Dinitropropylene glycol</i>	Forbidden							Not Accepted by FedEx Ground
	Dinitroresorcinol, dry or wetted with less than 15 percent water, by mass	1.1D	UN0078	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	<i>2,4-Dinitroresorcinol (heavy metal salts of) (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>4,6-Dinitroresorcinol (heavy metal salts of) (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Dinitroresorcinol, wetted with not less than 15 percent water, by mass	4.1	UN1322	I	FLAMMABLE SOLID	23, A8, A19, A20, N41	None	211	
	<i>3,5-Dinitrosalicylic acid (lead salt) (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Dinitrosobenzene	1.3C	UN0406	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	<i>Dinitrosobenzylamidine and salts of (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>2,2-Dinitrostilbene</i>	Forbidden							Not Accepted by FedEx Ground
	Dinitrotoluenes, liquid	6.1	UN2038	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dinitrotoluenes, molten	6.1	UN1600	II	POISON	T7, TP3	None	202	Not Accepted by FedEx Ground
	Dinitrotoluenes, solid	6.1	UN3454	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>1,9-Dinitroxy pentamethylene-2,4, 6,8-tetramine (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Dioxane	3	UN1165	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Dioxolane	3	UN1166	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Dipentene	3	UN2052	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Diphenylamine chloroarsine	6.1	UN1698	I	POISON	T6, TP33	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Diphenylchloroarsine, liquid	6.1	UN1699	I	POISON	A8, B14, B32, N33, N34, T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Diphenylchloroarsine, solid	6.1	UN3450	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Diphenyldichlorosilane	8	UN1769	II	CORROSIVE	A7, B2, IB2, N34, T7, TP2, TP13	None	202	
	Diphenylmethyl bromide	8	UN1770	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Dipicryl sulfide, dry or wetted with less than 10 percent water, by mass	1.1D	UN0401	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Dipicryl sulfide, wetted with not less than 10 percent water, by mass	4.1	UN2852	I	FLAMMABLE SOLID	162, A2, N41, N84	None	211	
	Dipicrylamine, see Hexanitrodiphenylamine								NA
	<i>Dipropionyl peroxide, with more than 28 percent in solution</i>	Forbidden							Not Accepted by FedEx Ground
	Di-n-propyl ether	3	UN2384	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Dipropyl ketone	3	UN2710	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Dipropylamine	3 (8)	UN2383	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1	150	202	
G	Disinfectant, liquid, corrosive, n.o.s.	8	UN1903	I	CORROSIVE	A6, A7, B10, T14, TP2, TP27	None	201	
G	Disinfectants, liquid, corrosive n.o.s.	8	UN1903	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
G	Disinfectants, liquid, corrosive n.o.s.	8	UN1903	III	CORROSIVE	IB3, T4, TP1	154	203	
G	Disinfectants, liquid, toxic, n.o.s.	6.1	UN3142	I	POISON	A4, T14, TP2, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Disinfectants, liquid, toxic, n.o.s.	6.1	UN3142	II	POISON	IB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
G	Disinfectants, liquid, toxic, n.o.s.	6.1	UN3142	III	POISON	IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Disinfectants, solid, toxic, n.o.s.	6.1	UN1601	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Disinfectants, solid, toxic, n.o.s.	6.1	UN1601	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Disinfectants, solid, toxic, n.o.s.	6.1	UN1601	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Disodium trioxosilicate	8	UN3253	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
G	Dispersant gases, n.o.s. see Refrigerant gases, n.o.s.								NA
	Divinyl ether, stabilized	3	UN1167	I	FLAMMABLE LIQUID	A7, T11, TP2	None	201	
	Dodecyltrichlorosilane	8	UN1771	II	CORROSIVE	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	
	Dry ice, see Carbon dioxide, solid								NA
G	Dyes, liquid, corrosive, n.o.s. or Dye intermediates, liquid, corrosive, n.o.s.	8	UN2801	I	CORROSIVE	11, A6, B10, T14, TP2, TP27	None	201	
G	Dyes, liquid, corrosive, n.o.s. or Dye intermediates, liquid, corrosive, n.o.s.	8	UN2801	II	CORROSIVE	11, B2, IB2, T11, TP2, TP27	154	202	
G	Dyes, liquid, corrosive, n.o.s. or Dye intermediates, liquid, corrosive, n.o.s.	8	UN2801	III	CORROSIVE	11, IB3, T7, TP1, TP28	154	203	
G	Dyes, liquid, toxic, n.o.s. or Dye intermediates, liquid, toxic, n.o.s.	6.1	UN1602	I	POISON		None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Dyes, liquid, toxic, n.o.s. or Dye intermediates, liquid, toxic, n.o.s.	6.1	UN1602	II	POISON	IB2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Dyes, liquid, toxic, n.o.s. or Dye intermediates, liquid, toxic, n.o.s.	6.1	UN1602	III	POISON	IB3	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Dyes, solid, corrosive, n.o.s. or Dye intermediates, solid, corrosive, n.o.s.	8	UN3147	I	CORROSIVE	IB7, IP1, T6, TP33	None	211	
G	Dyes, solid, corrosive, n.o.s. or Dye intermediates, solid, corrosive, n.o.s.	8	UN3147	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
G	Dyes, solid, corrosive, n.o.s. or Dye intermediates, solid, corrosive, n.o.s.	8	UN3147	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
G	Dyes, solid, toxic, n.o.s. or Dye intermediates, solid, toxic, n.o.s.	6.1	UN3143	I	POISON	A5, IB7, IP1, T3, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Dyes, solid, toxic, n.o.s. or Dye intermediates, solid, toxic, n.o.s.	6.1	UN3143	II	POISON	IB8, IP2, IP4, T6, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Dyes, solid, toxic, n.o.s. or Dye intermediates, solid, toxic, n.o.s.	6.1	UN3143	III	POISON	IP8, IP3, IP1, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Dynamite, see Explosive, blasting, type A								NA
	Electrolyte (acid or alkali) for batteries, see Battery fluid, acid or Battery fluid, alkali								NA
	Elevated temperature liquid, flammable, n.o.s., with flash point above 37.8 C, at or above its flash point	3	UN3256	III	FLAMMABLE LIQUID	IB1, T3, TP3, TP29	None	None	
	Elevated temperature liquid, n.o.s., at or above 100 C and below its flash point (including molten metals, molten salts, etc.)	9	UN3257	III	CLASS 9	IB1, T3, TP3, TP29	None	None	
	Elevated temperature solid, n.o.s., at or above 240 C, see §173.247(h)(4)	9	UN3258	III	CLASS 9		247(h)(4)	None	
	Engines, internal combustion, flammable gas powered	9	UN3166		CLASS 9	135	220	220	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Engines, internal combustion, flammable liquid powered	9	UN3166		CLASS 9	135	220	220	
G	Environmentally hazardous substance, liquid, n.o.s.	9	UN3082	III	CLASS 9	8, 146, IB3, T4, TP1, TP29	155	203	
G	Environmentally hazardous substance, solid, n.o.s.	9	UN3077	III	CLASS 9	8, 146, B54, IB8, IP3, N20, T1, TP33	155	213	
	Epibromohydrin	6.1 (3)	UN2558	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
+	Epichlorohydrin	6.1 (3)	UN2023	II	POISON, FLAMMABLE LIQUID	IB2, T7, TP2, TP13	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	1,2-Epoxy-3-ethoxypropane	3	UN2752	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Esters, n.o.s.	3	UN3272	II	FLAMMABLE LIQUID	IB2, T7, TP1, TP8, TP28	150	202	
	Esters, n.o.s.	3	UN3272	III	FLAMMABLE LIQUID	B1, IB3, T4, TP1, TP29	150	203	
	<i>Etching acid, liquid, n.o.s., see Hydrofluoric acid, etc</i>								NA
	Ethane	2.1	UN1035		FLAMMABLE GAS		306	304	
D	Ethane-Propane mixture, refrigerated liquid	2.1	NA1961		FLAMMABLE GAS	T75, TP5	None	316	Not Accepted by FedEx Ground
	Ethane, refrigerated liquid	2.1	UN1961		FLAMMABLE GAS	T75, TP5	None	None	Not Accepted by FedEx Ground
	<i>Ethanol amine dinitrate</i>	Forbidden							Not Accepted by FedEx Ground
	Ethanol and gasoline mixture or Ethanol and motor spirit mixture or Ethanol and petrol mixture, with more than 10% ethanol	3	UN3475	II	FLAMMABLE LIQUID	144, 177, IB2, T4, TP1	150	202	
	Ethanol or Ethyl alcohol or Ethanol solutions or Ethyl alcohol solutions	3	UN1170	II	FLAMMABLE LIQUID	24, IB2, T4, TP1	150	202	
	Ethanol or Ethyl alcohol or Ethanol solutions or Ethyl alcohol solutions	3	UN1170	III	FLAMMABLE LIQUID	24, B1, IB3, T2, TP1	150	203	
	Ethanolamine or Ethanolamine solutions	8	UN2491	III	CORROSIVE	IB3, T4, TP1	154	203	
	<i>Ether, see Diethyl ether</i>								NA
	Ethers, n.o.s.	3	UN3271	II	FLAMMABLE LIQUID	IB2, T7, TP1, TP8, TP28	150	202	
	Ethers, n.o.s.	3	UN3271	III	FLAMMABLE LIQUID	B1, IB3, T4, TP1, TP29	150	203	
	Ethyl acetate	3	UN1173	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Ethyl acrylate, stabilized	3	UN1917	II	FLAMMABLE LIQUID	IB2, T4, TP1, TP13	150	202	
	<i>Ethyl alcohol, see Ethanol</i>								NA
	<i>Ethyl aldehyde, see Acetaldehyde</i>								NA
	Ethyl amyl ketone	3	UN2271	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	N-Ethylbenzyltoluidines, solid	6.1	UN3460	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	N-Ethyl-N-benzylaniline	6.1	UN2274	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ethyl borate	3	UN1176	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Ethyl bromide	6.1	UN1891	II	POISON	IB2, IP8, T7, TP2, TP13	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ethyl bromoacetate	6.1 (3)	UN1603	II	POISON, FLAMMABLE LIQUID	IB2, T7, TP2	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ethyl butyl ether	3	UN1179	II	FLAMMABLE LIQUID	B1, IB2, T4, TP1	150	202	
	Ethyl butyrate	3	UN1180	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Ethyl chloride	2.1	UN1037		FLAMMABLE GAS	B77, N86, T50	None	322	
	Ethyl chloroacetate	6.1 (3)	UN1181	II	POISON, FLAMMABLE LIQUID	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Ethyl chloroformate	6.1 (3, 8)	UN1182	I	POISON, FLAMMABLE LIQUID, CORROSIVE	2, B9, B14, B32, B74, N34, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Ethyl 2-chloropropionate	3	UN2935	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
+	Ethyl chlorothioformate	8 (6.1, 3)	UN2826	II	CORROSIVE, POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, T20, TP2, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Ethyl crotonate	3	UN1862	II	FLAMMABLE LIQUID	IB2, T4, TP2	150	202	
	Ethyl ether, see Diethyl ether								NA
	Ethyl fluoride or Refrigerant gas R161	2.1	UN2453		FLAMMABLE GAS		306	304	
	Ethyl formate	3	UN1190	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>Ethyl hydroperoxide</i>	Forbidden							Not Accepted by FedEx Ground
	Ethyl isobutyrate	3	UN2385	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
+	Ethyl isocyanate	3 (6.1)	UN2481	I	FLAMMABLE LIQUID, POISON	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ethyl lactate	3	UN1192	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Ethyl mercaptan	3	UN2363	I	FLAMMABLE LIQUID	A6, T11, TP2, TP13	None	201	
	Ethyl methacrylate, stabilized	3	UN2277	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Ethyl methyl ether	2.1	UN1039		FLAMMABLE GAS		None	201	
	Ethyl methyl ketone or Methyl ethyl ketone	3	UN1193	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Ethyl nitrite solutions	3 (6.1)	UN1194	I	FLAMMABLE LIQUID, POISON		None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ethyl orthoformate	3	UN2524	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Ethyl oxalate	6.1	UN2525	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Ethyl perchlorate</i>	Forbidden							Not Accepted by FedEx Ground
D	Ethyl phosphonothioic dichloride, anhydrous	6.1 (8)	NA2927	I	POISON, CORROSIVE	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
D	Ethyl phosphorodichloridate	6.1 (8)	NA2927	I	POISON, CORROSIVE	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Ethyl propionate	3	UN1195	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Ethyl propyl ether	3	UN2615	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
D	Ethyl phosphonous dichloride, anhydrous pyrophoric liquid	6.1 (4.2)	NA2845	I	POISON, SPONTANEOUSLY COMBUSTIBLE	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	<i>Ethyl silicate, see Tetraethyl silicate</i>								NA
	Ethylacetylene, stabilized	2.1	UN2452		FLAMMABLE GAS	N88	None	304	
	Ethylamine	2.1	UN1036		FLAMMABLE GAS	B77, N87, T50	None	321	
	Ethylamine, aqueous solution with not less than 50 percent but not more than 70 percent ethylamine	3 (8)	UN2270	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1	150	202	
	N-Ethylaniline	6.1	UN2272	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2-Ethylaniline	6.1	UN2273	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ethylbenzene	3	UN1175	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	N-Ethylbenzyltoluidines liquid	6.1	UN2753	III	POISON	IB3, T7, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2-Ethylbutanol	3	UN2275	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	2-Ethylbutyl acetate	3	UN1177	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	2-Ethylbutyraldehyde	3	UN1178	II	FLAMMABLE LIQUID	B1, IB2, T4, TP1	150	202	
	Ethylchloroarsine	6.1	UN1892	I	POISON	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Ethylchlorosilane	4.3 (8, 3)	UN1183	I	DANGEROUS WHEN WET, CORROSIVE, FLAMMABLE LIQUID	A2, A3, A7, N34, T10, TP2, TP7, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ethylene, acetylene and propylene in mixture, refrigerated liquid with at least 71.5 percent ethylene with not more than 22.5 percent acetylene and not more than 6 percent propylene	2.1	UN3138		FLAMMABLE GAS	T75, TP5	None	304	
	Ethylene chlorohydrin	6.1 (3)	UN1135	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Ethylene	2.1	UN1962		FLAMMABLE GAS		306	304	
	Ethylene diamine diperchlorate	Forbidden							Not Accepted by FedEx Ground
	Ethylene dibromide	6.1	UN1605	I	POISON	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	<i>Ethylene dibromide and methyl bromide liquid mixtures, see Methyl bromide and ethylene dibromide, liquid mixtures</i>								NA
	Ethylene dichloride	3 (6.1)	UN1184	II	FLAMMABLE LIQUID, POISON	IB2, N36, T7, TP1	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ethylene glycol diethyl ether	3	UN1153	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Ethylene glycol diethyl ether	3	UN1153	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Ethylene glycol dinitrate	Forbidden							Not Accepted by FedEx Ground
	Ethylene glycol monoethyl ether	3	UN1171	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Ethylene glycol monoethyl ether acetate	3	UN1172	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Ethylene glycol monomethyl ether	3	UN1188	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Ethylene glycol monomethyl ether acetate	3	UN1189	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Ethylene oxide and carbon dioxide mixture with more than 87 percent ethylene oxide	2.3 (2.1)	UN3300		POISON GAS, FLAMMABLE GAS	4	None	304	Not Accepted by FedEx Ground
	Ethylene oxide and carbon dioxide mixtures with more than 9 percent but not more than 87 percent ethylene oxide	2.1	UN1041		FLAMMABLE GAS	T50	306	304	
	Ethylene oxide and carbon dioxide mixtures with not more than 9 percent ethylene oxide	2.2	UN1952		NONFLAMMABLE GAS		306	304	
	Ethylene oxide and chlorotetrafluoroethane mixture with not more than 8.8 percent ethylene oxide	2.2	UN3297		NONFLAMMABLE GAS	T50	306	304	
	Ethylene oxide and dichlorodifluoromethane mixture, with not more than 12.5 percent ethylene oxide	2.2	UN3070		NONFLAMMABLE GAS	T50	306	304	
	Ethylene oxide and pentafluoroethane mixture with not more than 7.9 percent ethylene oxide	2.2	UN3298		NONFLAMMABLE GAS	T50	306	304	
	Ethylene oxide and propylene oxide mixtures, with not more than 30 percent ethylene oxide	3 (6.1)	UN2983	I	FLAMMABLE LIQUID, POISON	5, A11, N4, N34, T14, TP2, TP7, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ethylene oxide and tetrafluoroethane mixture with not more than 5.6 percent ethylene oxide	2.2	UN3299		NONFLAMMABLE GAS	T50	306	304	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Ethylene oxide or Ethylene oxide with nitrogen up to a total pressure of 1MPa (10 bar) at 50 degrees C	2.3 (2.1)	UN1040		POISON GAS, FLAMMABLE GAS	4, A59, T50, TP20	None	323	Not Accepted by FedEx Ground
	Ethylene, refrigerated liquid (cryogenic liquid)	2.1	UN1038		FLAMMABLE GAS	T75, TP5	None	316	Not Accepted by FedEx Ground
	Ethylenediamine	8 (3)	UN1604	II	CORROSIVE, FLAMMABLE LIQUID	IB2, T7, TP2	154	202	
	Ethyleneimine, stabilized <i>Ethylhexaldehyde, see Octyl aldehydes etc</i>	6.1 (3)	UN1185	I	POISON, FLAMMABLE LIQUID	1, B9, B14, B30, B72, B77, N25, N32, T22, TP2, TP13, TP38, TP44	None	226	Not Accepted by FedEx Ground NA
	2-Ethylhexyl chloroformate	6.1 (8)	UN2748	II	POISON, CORROSIVE	IB2, T7, TP2, TP13	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2-Ethylhexylamine	3 (8)	UN2276	III	FLAMMABLE LIQUID, CORROSIVE	B1, IB3, T4, TP1	150	203	
	Ethylphenyldichlorosilane	8	UN2435	II	CORROSIVE	A7, B2, IB2, N34, T7, TP2, TP13	None	202	
	1-Ethylpiperidine	3 (8)	UN2386	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1	150	202	
	N-Ethyltoluidines	6.1	UN2754	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ethyltrichlorosilane <i>Etiologic agent, see Infectious substances, etc</i>	3 (8)	UN1196	II	FLAMMABLE LIQUID, CORROSIVE	A7, IB1, N34, T7, TP2, TP13	None	202	NA
	<i>Explosive articles, see Articles, explosive, n.o.s. etc</i>								NA
	Explosive, blasting, type A	1.1D	UN0081	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Explosive, blasting, type B	1.1D	UN0082	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Explosive, blasting, type B or Agent blasting, Type B	1.5D	UN0331	II	EXPLOSIVE 1.5D	105, 106	None	62	Not Accepted by FedEx Ground
	Explosive, blasting, type C	1.1D	UN0083	II	EXPLOSIVE 1.1D	123	None	62	Not Accepted by FedEx Ground
	Explosive, blasting, type D	1.1D	UN0084	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Explosive, blasting, type E	1.1D	UN0241	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Explosive, blasting, type E or Agent blasting, Type E	1.5D	UN0332	II	EXPLOSIVE 1.5D	105, 106	None	62	Not Accepted by FedEx Ground
	<i>Explosive, forbidden. See §173.54</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Explosive substances, see Substances, explosive, n.o.s. etc</i>								NA
	<i>Explosives, slurry, see Explosive, blasting, type E</i>								NA
	<i>Explosives, water gels, see Explosive, blasting, type E</i>								NA
	Extracts, aromatic, liquid	3	UN1169	II	FLAMMABLE LIQUID	149, IB2, T4, TP1, TP8	150	202	
	Extracts, aromatic, liquid	3	UN1169	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Extracts, flavoring, liquid	3	UN1197	II	FLAMMABLE LIQUID	149, IB2, T4, TP1, TP8	150	202	
	Extracts, flavoring, liquid	3	UN1197	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>Fabric with animal or vegetable oil, see Fibers or fabrics, etc</i>								NA
	Ferric arsenate	6.1	UN1606	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ferric arsenite	6.1	UN1607	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Ferric chloride, anhydrous	8	UN1773	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Ferric chloride, solution	8	UN2582	III	CORROSIVE	B15, IB3, T4, TP1	154	203	
	Ferric nitrate	5.1	UN1466	III	OXIDIZER	A1, A29, IB8, IP3, T1, TP33	152	213	
	Ferrocium	4.1	UN1323	II	FLAMMABLE SOLID	59, A19, IB8, IP2, IP4, T3, TP33	151	212	
	Ferrosilicon with 30 percent or more but less than 90 percent silicon	4.3 (6.1)	UN1408	III	DANGEROUS WHEN WET, POISON	A1, A19, B6, IB8, IP4, IP7, T1, TP33	151	213	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Ferrous arsenate	6.1	UN1608	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
D	Ferrous chloride, solid	8	NA1759	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
D	Ferrous chloride, solution	8	NA1760	II	CORROSIVE	B3, IB2, T11, TP2, TP27	154	202	
	Ferrous metal borings or Ferrous metal shavings or Ferrous metal turnings or Ferrous metal cuttings in a form liable to self-heating	4.2	UN2793	III	SPONTANEOUSLY COMBUSTIBLE	A1, A19, IB8, IP3, IP7	None	213	Not Accepted by FedEx Ground
	Fertilizer ammoniating solution with free ammonia	2.2	UN1043		NONFLAMMABLE GAS	N87	306	304	
A I W	Fibers, animal or Fibers, vegetable burnt, wet or damp	4.2	UN1372	III	SPONTANEOUSLY COMBUSTIBLE		151	213	May not be regulated via highway
IW	Fibers, vegetable, dry	4.1	UN3360	III	FLAMMABLE SOLID	137	151	213	
A W	Fibers or Fabrics, animal or vegetable or Synthetic, n.o.s. with animal or vegetable oil	4.2	UN1373	III	SPONTANEOUSLY COMBUSTIBLE	137, IB8, IP3, T1, TP33	None	213	May not be regulated via highway
	Fibers or Fabrics impregnated with weakly nitrated nitrocellulose, n.o.s.	4.1	UN1353	III	FLAMMABLE SOLID	A1, IB8, IP3	None	213	
	<i>Films, nitrocellulose base, from which gelatine has been removed; film scrap. see Celluloid scrap</i>								NA
	Films, nitrocellulose base, gelatine coated (except scrap)	4.1	UN1324	III	FLAMMABLE SOLID		None	183	
	Fire extinguisher charges, corrosive liquid	8	UN1774	II	CORROSIVE	N41	154	202	
	<i>Fire extinguisher charges, expelling, explosive, see Cartridges, power device</i>								NA
	Fire extinguishers containing compressed or liquefied gas	2.2	UN1044		NONFLAMMABLE GAS	18, 110	309	309	
	Firelighters, solid with flammable liquid	4.1	UN2623	III	FLAMMABLE SOLID	A1, A19	None	213	
	Fireworks	1.1G	UN0333	II	EXPLOSIVE 1.1G	108	None	62	Not Accepted by FedEx Ground
	Fireworks	1.2G	UN0334	II	EXPLOSIVE 1.2G	108	None	62	Not Accepted by FedEx Ground
	Fireworks	1.3G	UN0335	II	EXPLOSIVE 1.3G	108	None	62	Not Accepted by FedEx Ground
	Fireworks	1.4G	UN0336	II	EXPLOSIVE 1.4G	108	None	62	Not Accepted by FedEx Ground
	Fireworks	1.4S	UN0337	II	EXPLOSIVE 1.4S	108	None	62	Not Accepted by FedEx Ground
	First aid kits	9	UN3316		CLASS 9	15	161	161	
W	Fish meal, stabilized or Fish scrap, stabilized	None	UN2216	III	NONE	155, IB8, IP3, T1, TP33	155	218	
	Fish meal, unstabilized or Fish scrap, unstabilized	4.2	UN1374	II	SPONTANEOUSLY COMBUSTIBLE	155, A1, A19, IB8, IP2, IP4, T3, TP33	None	212	Not Accepted by FedEx Ground
	<i>Flammable compressed gas, see Compressed or Liquefied gas, flammable, etc</i>								NA
	<i>Flammable compressed gas (small receptacles not fitted with a dispersion device, not refillable), see Receptacles, etc</i>								NA
	<i>Flammable gas in lighters, see Lighters or lighter refills, cigarettes, containing flammable gas</i>								NA
G	Flammable liquid, toxic, corrosive, n.o.s.	3 (6.1, 8)	UN3286	I	FLAMMABLE LIQUID, POISON, CORROSIVE	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
G	Flammable liquid, toxic, corrosive, n.o.s.	3 (6.1, 8)	UN3286	II	FLAMMABLE LIQUID, POISON, CORROSIVE	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Flammable liquids, corrosive, n.o.s.	3 (8)	UN2924	I	FLAMMABLE LIQUID, CORROSIVE	T14, TP2	None	201	
G	Flammable liquids, corrosive, n.o.s.	3 (8)	UN2924	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T11, TP2, TP27	150	202	
G	Flammable liquids, corrosive, n.o.s.	3 (8)	UN2924	III	FLAMMABLE LIQUID, CORROSIVE	B1, IB3, T7, TP1, TP28	150	203	
G	Flammable liquids, n.o.s.	3	UN1993	I	FLAMMABLE LIQUID	T11, TP1, TP27	150	201	
G	Flammable liquids, n.o.s.	3	UN1993	II	FLAMMABLE LIQUID	IB2, T7, TP1, TP8, TP28	150	202	
G	Flammable liquids, n.o.s.	3	UN1993	III	FLAMMABLE LIQUID	B1, B52, IB3, T4, TP1, TP29	150	203	
G	Flammable liquids, toxic, n.o.s.	3 (6.1)	UN1992	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Flammable liquids, toxic, n.o.s.	3 (6.1)	UN1992	II	FLAMMABLE LIQUID, POISON	IB2, T7, TP2, TP13	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Flammable liquids, toxic, n.o.s.	3 (6.1)	UN1992	III	FLAMMABLE LIQUID, POISON	B1, IB3, T7, TP1, TP28	150	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Flammable solid, corrosive, inorganic, n.o.s.	4.1 (8)	UN3180	II	FLAMMABLE SOLID, CORROSIVE	A1, IB6, IP2, T3, TP33	151	212	
G	Flammable solid, corrosive, inorganic, n.o.s.	4.1 (8)	UN3180	III	FLAMMABLE SOLID, CORROSIVE	A1, IB6, T1, TP33	151	213	
G	Flammable solid, inorganic, n.o.s.	4.1	UN3178	II	FLAMMABLE SOLID	A1, IB8, IP2, IP4, T3, TP33	151	212	
G	Flammable solid, inorganic, n.o.s.	4.1	UN3178	III	FLAMMABLE SOLID	A1, IB8, IP3, T1, TP33	151	213	
G	Flammable solid, organic, molten, n.o.s.	4.1	UN3176	II	FLAMMABLE SOLID	IB1, T3, TP3, TP26	151	212	Not Accepted by FedEx Ground
G	Flammable solid, organic, molten, n.o.s.	4.1	UN3176	III	FLAMMABLE SOLID	IB1, T1, TP3, TP26	151	213	Not Accepted by FedEx Ground
G	Flammable solid, oxidizing, n.o.s.	4.1 (5.1)	UN3097	II	FLAMMABLE SOLID, OXIDIZER	131	None	214	Not Accepted by FedEx Ground
G	Flammable solid, oxidizing, n.o.s.	4.1 (5.1)	UN3097	III	FLAMMABLE SOLID, OXIDIZER	131, T1, TP33	None	214	Not Accepted by FedEx Ground
G	Flammable solid, toxic, inorganic, n.o.s.	4.1 (6.1)	UN3179	II	FLAMMABLE SOLID, POISON	A1, IB6, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Flammable solid, toxic, inorganic, n.o.s.	4.1 (6.1)	UN3179	III	FLAMMABLE SOLID, POISON	A1, IB6, T1, TP33	151	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Flammable solids, corrosive, organic, n.o.s.	4.1 (8)	UN2925	II	FLAMMABLE SOLID, CORROSIVE	A1, IB6, IP2, T3, TP33	None	212	
G	Flammable solids, corrosive, organic, n.o.s.	4.1 (8)	UN2925	III	FLAMMABLE SOLID, CORROSIVE	A1, IB6, T1, TP33	151	213	
G	Flammable solids, organic, n.o.s.	4.1	UN1325	II	FLAMMABLE SOLID	A1, IB8, IP2, IP4, T3, TP33	151	212	
G	Flammable solids, organic, n.o.s.	4.1	UN1325	III	FLAMMABLE SOLID	A1, IB8, IP3, T1, TP33	151	213	
G	Flammable solids, toxic, organic, n.o.s.	4.1 (6.1)	UN2926	II	FLAMMABLE SOLID, POISON	A1, IB6, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Flammable solids, toxic, organic, n.o.s.	4.1 (6.1)	UN2926	III	FLAMMABLE SOLID, POISON	A1, IB6, T1, TP33	151	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Flares, aerial	1.3G	UN0093	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	Flares, aerial	1.4G	UN0403	II	EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Flares, aerial	1.4S	UN0404	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Flares, aerial	1.1G	UN0420	II	EXPLOSIVE 1.1G		None	62	Not Accepted by FedEx Ground
	Flares, aerial	1.2G	UN0421	II	EXPLOSIVE 1.2G		None	62	Not Accepted by FedEx Ground
	<i>Flares, airplane, see Flares, aerial</i>								NA
	<i>Flares, signal, see Cartridges, signal</i>								NA
	Flares, surface	1.3G	UN0092	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	Flares, surface	1.1G	UN0418	II	EXPLOSIVE 1.1G		None	62	Not Accepted by FedEx Ground
	Flares, surface	1.2G	UN0419	II	EXPLOSIVE 1.2G		None	62	Not Accepted by FedEx Ground
	<i>Flares, water-activated, see Contrivances, water-activated, etc</i>								NA
	Flash powder	1.1G	UN0094	II	EXPLOSIVE 1.1G		None	62	Not Accepted by FedEx Ground
	Flash powder	1.3G	UN0305	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	<i>Flue dusts, poisonous, see Arsenical dust</i>								NA
	<i>Fluoric acid, see Hydrofluoric acid, etc</i>								NA
	Fluorine, compressed	2.3 (5.1, 8)	UN1045		POISON GAS, OXIDIZER, CORROSIVE	1, N86	None	302	Not Accepted by FedEx Ground
	Fluoroacetic acid	6.1	UN2642	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Fluoroanilines	6.1	UN2941	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Fluorobenzene	3	UN2387	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Fluoroboric acid	8	UN1775	II	CORROSIVE	A6, A7, B2, B15, IB2, N3, N34, T7, TP2	154	202	
	Fluorophosphoric acid anhydrous	8	UN1776	II	CORROSIVE	A6, A7, B2, IB2, N3, N34, T8, TP2, TP12	None	202	
	Fluorosilicates, n.o.s.	6.1	UN2856	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Fluorosilicic acid	8	UN1778	II	CORROSIVE	A6, A7, B2, B15, IB2, N3, N34, T8, TP2, TP12	None	202	
	Fluorosulfonic acid	8	UN1777	I	CORROSIVE	A3, A6, A7, A10, B6, B10, N3, N36, T10, TP2, TP12	None	201	
	Fluorotoluenes	3	UN2388	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>Forbidden materials. See §173.21</i>	Forbidden							Not Accepted by FedEx Ground
	Formaldehyde, solutions, flammable	3 (8)	UN1198	III	FLAMMABLE LIQUID, CORROSIVE	B1, IB3, T4, TP1	150	203	
	Formaldehyde, solutions, with not less than 25 percent formaldehyde	8	UN2209	III	CORROSIVE	IB3, T4, TP1	154	203	
	<i>Formalin, see Formaldehyde, solutions</i>								NA
	Formic acid with not less than 10% but not more than 85% acid by mass	8	UN3412	II	CORROSIVE	IB2, T7, TP2	154	202	
	Formic acid with not less than 5% but less than 10% acid by mass	8	UN3412	III	CORROSIVE	IB3, T4, TP1	154	203	
	Formic acid with more than 85% acid by mass	8 (3)	UN1779	II	CORROSIVE, FLAMMABLE LIQUID	B2, B28, IB2, T7, TP2	154	202	
	Fracturing devices, explosive, without detonators for oil wells	1.1D	UN0099	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Fuel, aviation, turbine engine	3	UN1863	I	FLAMMABLE LIQUID	144, T11, TP1, TP8, TP28	150	201	
	Fuel, aviation, turbine engine	3	UN1863	II	FLAMMABLE LIQUID	144, IB2, T4, TP1, TP8	150	202	
	Fuel, aviation, turbine engine	3	UN1863	III	FLAMMABLE LIQUID	144, B1, IB3, T2, TP1	150	203	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Fuel cell cartridges or Fuel cell cartridges contained in equipment or Fuel cell cartridges packed with equipment, containing corrosive substances	3	UN3473	II	FLAMMABLE LIQUID		230	230	
	Fuel cell cartridges or Fuel cell cartridges contained in equipment or Fuel cell cartridges packed with equipment, containing flammable liquids	8	UN3477		CORROSIVE		230	230	
	Fuel cell cartridges or Fuel cell cartridges contained in equipment or Fuel cell cartridges packed with equipment, containing hydrogen in metal hydride	2.1	UN3479		FLAMMABLE GAS		230	230	
	Fuel cell cartridges or Fuel cell cartridges contained in equipment or Fuel cell cartridges packed with equipment, containing liquefied flammable gas	2.1	UN3478		FLAMMABLE GAS		230	230	
	Fuel cell cartridges or Fuel cell cartridges contained in equipment or Fuel cell cartridges packed with equipment, containing water-reactive substances	4.3	UN3476		DANGEROUS WHEN WET		230	230	Accepted only when packaged as Limited quantity or ORM-D
D	Fuel oil (No. 1, 2, 4, 5, or 6)	3	NA1993	III	FLAMMABLE LIQUID	144, B1, IB3, T4, TP1, TP29	150	203	
	Fuel system components (including fuel control units (FCU), carburetors, fuel lines, fuel pumps) see Dangerous Goods in Apparatus or Dangerous Goods in Machinery								NA
	Fulminate of mercury (dry)	Forbidden							Not Accepted by FedEx Ground
	Fulminate of mercury, wet, see Mercury fulminate, etc								NA
	Fulminating gold	Forbidden							Not Accepted by FedEx Ground
	Fulminating mercury	Forbidden							Not Accepted by FedEx Ground
	Fulminating platinum	Forbidden							Not Accepted by FedEx Ground
	Fulminating silver	Forbidden							Not Accepted by FedEx Ground
	Fulminic acid	Forbidden							Not Accepted by FedEx Ground
	Fumaryl chloride	8	UN1780	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	Fumigated lading, see §§172.302(g), 173.9 and 176.76(h)								NA
	Fumigated transport vehicle or freight container see §173.9								NA
	Furaldehydes	6.1 (3)	UN1199	II	POISON, FLAMMABLE LIQUID	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Furan	3	UN2389	I	FLAMMABLE LIQUID	T12, TP2, TP13	None	201	
	Furfuryl alcohol	6.1	UN2874	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Furfurylamine	3 (8)	UN2526	III	FLAMMABLE LIQUID, CORROSIVE	B1, IB3, T4, TP1	150	203	
	Fuse, detonating, metal clad, see Cord, detonating, metal clad								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Fuse, detonating, mild effect, metal clad, see Cord, detonating, mild effect, metal clad								NA
	Fuse, igniter tubular metal clad	1.4G	UN0103	II	EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Fuse, non-detonating instantaneous or quickmatch	1.3G	UN0101	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	Fuse, safety	1.4S	UN0105	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
D	Fusee (railway or highway)	4.1	NA1325	II	FLAMMABLE SOLID		None	184	
	Fusel oil	3	UN1201	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Fusel oil	3	UN1201	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>Fuses, tracer, see Tracers for ammunition</i>								NA
	<i>Fuzes, combination, percussion and time, see Fuzes, detonating (UN0257, UN0367); Fuzes, igniting (UN0317, UN0368)</i>								NA
	Fuzes, detonating	1.1B	UN0106	II	EXPLOSIVE 1.1B		None	62	Not Accepted by FedEx Ground
	Fuzes, detonating	1.2B	UN0107	II	EXPLOSIVE 1.2B		None	62	Not Accepted by FedEx Ground
	Fuzes, detonating	1.4B	UN0257	II	EXPLOSIVE 1.4B	116	None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Fuzes, detonating	1.4S	UN0367	II	EXPLOSIVE 1.4S	116	None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Fuzes, detonating, with protective features	1.1D	UN0408	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Fuzes, detonating, with protective features	1.2D	UN0409	II	EXPLOSIVE 1.2D		None	62	Not Accepted by FedEx Ground
	Fuzes, detonating, with protective features	1.4D	UN0410	II	EXPLOSIVE 1.4D	116	None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Fuzes, igniting	1.3G	UN0316	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	Fuzes, igniting	1.4G	UN0317	II	EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Fuzes, igniting	1.4S	UN0368	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	<i>Galactsan trinitrate</i>	Forbidden							Not Accepted by FedEx Ground
	Gallium	8	UN2803	III	CORROSIVE	T1, TP33	None	162	
	Gas cartridges, (flammable) without a release device, non-refillable	2.1	UN2037		FLAMMABLE GAS		306	304	
D	Gas identification set	2.3	NA9035		POISON GAS	6	None	194	Not Accepted by FedEx Ground
	Gas oil	3	UN1202	III	FLAMMABLE LIQUID	144, B1, IB3, T2, TP1	150	203	
G	Gas, refrigerated liquid, flammable, n.o.s. (cryogenic liquid)	2.1	UN3312		FLAMMABLE GAS	T75, TP5	None	316	Not Accepted by FedEx Ground
G	Gas, refrigerated liquid, n.o.s. (cryogenic liquid)	2.2	UN3158		NONFLAMMABLE GAS	T75, TP5	320	316	Accepted only when packaged under exception 49CFR 173.320
G	Gas, refrigerated liquid, oxidizing, n.o.s. (cryogenic liquid)	2.2 (5.1)	UN3311		NONFLAMMABLE GAS, OXIDIZER	T75, TP5, TP22	320	316	
	Gas sample, non-pressurized, flammable, n.o.s., not refrigerated liquid	2.1	UN3167		FLAMMABLE GAS		306	302, 304	
	Gas sample, non-pressurized, toxic, flammable, n.o.s., not refrigerated liquid	2.3 (2.1)	UN3168		POISON GAS, FLAMMABLE GAS	6	306	302	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Gas sample, non-pressurized, toxic, n.o.s., not refrigerated liquid	2.3	UN3169		POISON GAS	6	306	302, 304	Not Accepted by FedEx Ground
	Gasoline includes gasoline mixed with ethyl alcohol, with not more than 10% alcohol	3	UN1203	II	FLAMMABLE LIQUID	144, B1, B33, T8	150	202	NA
	<i>Gasoline, casinghead, see Gasoline</i>								NA
	<i>Gelatine, blasting, see Explosive, blasting, type A</i>								NA
	<i>Gelatine dynamites, see Explosive, blasting, type A</i>								NA
	Germane	2.3 (2.1)	UN2192		POISON GAS, FLAMMABLE GAS	2	None	302	Not Accepted by FedEx Ground
	<i>Glycerol-1,3-dinitrate</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Glycerol gluconate trinitrate</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Glycerol lactate trinitrate</i>	Forbidden							Not Accepted by FedEx Ground
	Glycerol alpha-monochlorohydrin	6.1	UN2689	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Glyceryl trinitrate, see Nitroglycerin, etc</i>								NA
	Glycidaldehyde	3 (6.1)	UN2622	II	FLAMMABLE LIQUID, POISON	IB2, IP8, T7, TP1	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Grenades, hand or rifle, with bursting charge	1.1D	UN0284	II	EXPLOSIVE 1.1D			62	Not Accepted by FedEx Ground
	Grenades, hand or rifle, with bursting charge	1.2D	UN0285	II	EXPLOSIVE 1.2D			62	Not Accepted by FedEx Ground
	Grenades, hand or rifle, with bursting charge	1.1F	UN0292	II	EXPLOSIVE 1.1F			62	Not Accepted by FedEx Ground
	Grenades, hand or rifle, with bursting charge	1.2F	UN0293	II	EXPLOSIVE 1.2F			62	Not Accepted by FedEx Ground
	<i>Grenades, illuminating, see Ammunition, illuminating, etc</i>								NA
	Grenades, practice, hand or rifle	1.4S	UN0110	II	EXPLOSIVE 1.4S			62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Grenades, practice, hand or rifle	1.3G	UN0318	II	EXPLOSIVE 1.3G			62	Not Accepted by FedEx Ground
	Grenades, practice, hand or rifle	1.2G	UN0372	II	EXPLOSIVE 1.2G			62	Not Accepted by FedEx Ground
	Grenades practice Hand or rifle	1.4G	UN0452	II	EXPLOSIVE 1.4G			62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	<i>Grenades, smoke, see Ammunition, smoke, etc</i>								NA
	Guanidine nitrate	5.1	UN1467	III	OXIDIZER	A1, IB8, IP3, T1, TP33	152	213	Not Accepted by FedEx Ground
	<i>Guanyl nitrosaminoguanilydene hydrazine (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Guanyl nitrosaminoguanilydene hydrazine, wetted with not less than 30 percent water, by mass	1.1A	UN0113	II	EXPLOSIVE 1.1A	111, 117	None	62	Not Accepted by FedEx Ground
	<i>Guanyl nitrosaminoguanilytetrazene (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Guanyl nitrosaminoguanilytetrazene, wetted or Tetrazene, wetted with not less than 30 percent water or mixture of alcohol and water, by mass	1.1A	UN0114	II	EXPLOSIVE 1.1A	111, 117	None	62	Not Accepted by FedEx Ground
	Gunpowder, compressed or Gunpowder in pellets, see Black powder (UN 0028)								NA
	Gunpowder, granular or as a meal, see Black powder (UN 0027)								NA
	Hafnium powder, dry	4.2	UN2545	I	SPONTANEOUSLY COMBUSTIBLE		None	211	Not Accepted by FedEx Ground
	Hafnium powder, dry	4.2	UN2545	II	SPONTANEOUSLY COMBUSTIBLE	A19, A20, IB6, IP2, N34, T3, TP33	None	212	Not Accepted by FedEx Ground
	Hafnium powder, dry	4.2	UN2545	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Hafnium powder, wetted with not less than 25 percent water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns	4.1	UN1326	II	FLAMMABLE SOLID	A6, A19, A20, IB6, IP2, N34, T3, TP33	None	212	
	Hand signal device, see Signal devices, hand								NA
	Hazardous substances, liquid or solid, n.o.s., see Environmentally hazardous substances, etc								NA
D G	Hazardous waste, liquid, n.o.s.	9	NA3082	III	CLASS 9	IB3, T2, TP1	155	203	
D G	Hazardous waste, solid, n.o.s.	9	NA3077	III	CLASS 9	B54, IB8, IP2, T1, TP33	155	213	
	Heating oil, light	3	UN1202	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Helium, compressed	2.2	UN1046		NONFLAMMABLE GAS		306	302	
	Helium, refrigerated liquid (cryogenic liquid)	2.2	UN1963		NONFLAMMABLE GAS	T75, TP5	320	316	Accepted only when packaged under exception 49CFR 173.320
	Heptafluoropropane or Refrigerant gas R 227	2.2	UN3296		NONFLAMMABLE GAS	T50	306	304	
	n-Heptaldehyde	3	UN3056	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Heptanes	3	UN1206	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	n-Heptene	3	UN2278	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Hexachloroacetone	6.1	UN2661	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hexachlorobenzene	6.1	UN2729	III	POISON	B3, IB8, IP3, T1, TP33	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hexachlorobutadiene	6.1	UN2279	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hexachlorocyclopentadiene	6.1	UN2646	I	POISON	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Hexachlorophene	6.1	UN2875	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hexadecyltrichlorosilane	8	UN1781	II	CORROSIVE	A7, B2, B6, IB2, N34, T7, TP2	None	202	
	Hexadienes	3	UN2458	II	FLAMMABLE LIQUID	IB2, T4, TP1	None	202	
	Hexaethyl tetraphosphate and compressed gas mixtures	2.3	UN1612		POISON GAS	3	None	334	Not Accepted by FedEx Ground
	Hexaethyl tetraphosphate, liquid	6.1	UN1611	II	POISON	IB2, N76, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hexaethyl tetraphosphate, solid	6.1	UN1611	II	POISON	IB8, IP2, IP4, N76	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hexafluoroacetone	2.3 (8)	UN2420		POISON GAS, CORROSIVE	2, B9, B14	None	304	Not Accepted by FedEx Ground
	Hexafluoroacetone hydrate, liquid	6.1	UN2552	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hexafluoroacetone hydrate, solid	6.1	UN3436	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hexafluoroethane, or Refrigerant gas R 116	2.2	UN2193		NONFLAMMABLE GAS		306	304	
	Hexafluorophosphoric acid	8	UN1782	II	CORROSIVE	A6, A7, B2, IB2, N3, N34, T8, TP2, TP12	None	202	
	Hexafluoropropylene compressed or Refrigerant gas R 1216	2.2	UN1858		NONFLAMMABLE GAS	T50	306	304	
	Hexaldehyde	3	UN1207	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Hexamethylene diisocyanate	6.1	UN2281	II	POISON	IB2, T7, TP2, TP13	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Hexamethylene triperoxide diamine (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Hexamethylenediamine, solid	8	UN2280	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Hexamethylenediamine solution	8	UN1783	II	CORROSIVE	IB2, T7, TP2	None	202	
	Hexamethylenediamine solution	8	UN1783	III	CORROSIVE	IB3, T4, TP1	154	203	
	Hexamethyleneimine	3 (8)	UN2493	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1	150	202	
	Hexamethylenetetramine	4.1	UN1328	III	FLAMMABLE SOLID	A1, IB8, IP3, T1, TP33	151	213	
	<i>Hexamethylol benzene hexanitrate</i>	Forbidden							Not Accepted by FedEx Ground
	Hexanes	3	UN1208	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>2,2',4,4',6,6'-Hexanitro-3,3'-dihydroxyazobenzene (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Hexanitroazoxy benzene</i>	Forbidden							Not Accepted by FedEx Ground
	<i>N,N'-(hexanitrodiphenyl) ethylene dinitramine (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Hexanitrodiphenyl urea</i>	Forbidden							Not Accepted by FedEx Ground
	<i>2,2',3',4,4',6-Hexanitrodiphenylamine</i>	Forbidden							Not Accepted by FedEx Ground
	Hexanitrodiphenylamine or Dipicrylamine or Hexyl 2,3',4,4',6,6'-Hexanitrodiphenylether	1.1D	UN0079	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	<i>Hexanitroethane</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Hexanitrooxanilide</i>	Forbidden							Not Accepted by FedEx Ground
	Hexanitrostilbene	1.1D	UN0392	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	<i>Hexanoic acid, see Corrosive liquids, n.o.s.</i>								NA
	Hexanols	3	UN2282	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	1-Hexene	3	UN2370	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Hexogen and cyclotetramethylenetetranitramine mixtures, wetted or desensitized see RDX and HMX mixtures, wetted or desensitized etc								NA
	Hexogen and HMX mixtures, wetted or desensitized see RDX and HMX mixtures, wetted or desensitized etc								NA
	Hexogen and octogen mixtures, wetted or desensitized see RDX and HMX mixtures, wetted or desensitized etc								NA
	Hexogen, see Cyclotrimethylenetrinitramine, etc								NA
	Hexolite, or Hexotol dry or wetted with less than 15 percent water, by mass	1.1D	UN0118	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Hexotonal	1.1D	UN0393	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Hexyl, see Hexanitrodiphenylamine								NA
	Hexyltrichlorosilane	8	UN1784	II	CORROSIVE	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	
	<i>High explosives, see individual explosives' entries</i>								NA
	HMX, see Cyclotetramethylenete tranitramine, etc								NA
	Hydrazine, anhydrous	8 (3, 6.1)	UN2029	I	CORROSIVE, FLAMMABLE LIQUID, POISON	A3, A6, A7, A10, B7, B16, B53	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hydrazine, aqueous solution, with not more than 37 percent hydrazine, by mass	6.1	UN3293	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Hydrazine aqueous solution, with more than 37% hydrazine, by mass	8 (6.1)	UN2030	I	CORROSIVE, POISON	B16, B53, T10, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hydrazine aqueous solution, with more than 37% hydrazine, by mass	8 (6.1)	UN2030	II	CORROSIVE, POISON	B16, B53, IB2, T7, TP2, TP13	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hydrazine aqueous solution, with more than 37% hydrazine, by mass	8 (6.1)	UN2030	III	CORROSIVE, POISON	B16, B53, IB3, T4, TP1	154	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hydrazine azide	Forbidden							Not Accepted by FedEx Ground
	Hydrazine chlorate	Forbidden							Not Accepted by FedEx Ground
	Hydrazine dicarbonic acid diazide	Forbidden							Not Accepted by FedEx Ground
	Hydrazine perchlorate	Forbidden							Not Accepted by FedEx Ground
	Hydrazine selenate	Forbidden							Not Accepted by FedEx Ground
	Hydriodic acid, anhydrous, see Hydrogen iodide, anhydrous								NA
	Hydriodic acid	8	UN1787	II	CORROSIVE	A3, A6, B2, IB2, N41, T7, TP2	154	202	
	Hydriodic acid	8	UN1787	III	CORROSIVE	IB3, T4, TP1	154	203	
	Hydrobromic acid, anhydrous, see Hydrogen bromide, anhydrous								NA
	Hydrobromic acid, with more than 49 percent hydrobromic acid	8	UN1788	II	CORROSIVE	B2, B15, IB2, N41, T7, TP2	154	202	
	Hydrobromic acid, with more than 49 percent hydrobromic acid	8	UN1788	III	CORROSIVE	IB3, T4, TP1	154	203	
	Hydrobromic acid, with not more than 49 percent hydrobromic acid	8	UN1788	II	CORROSIVE	A3, A6, B2, B15, IB2, N41, T7, TP2	154	202	
	Hydrobromic acid, with not more than 49 percent hydrobromic acid	8	UN1788	III	CORROSIVE	A3, IB3, T4, TP1	154	203	
	Hydrocarbon gas mixture, compressed, n.o.s.	2.1	UN1964		FLAMMABLE GAS		306	302	
	Hydrocarbon gas mixture, liquefied, n.o.s.	2.1	UN1965		FLAMMABLE GAS	T50	306	304	
	Hydrocarbons, liquid, n.o.s.	3	UN3295	I	FLAMMABLE LIQUID	144, T11, TP1, TP8, TP28	150	201	
	Hydrocarbons, liquid, n.o.s.	3	UN3295	II	FLAMMABLE LIQUID	144, IB2, T7, TP1, TP8, TP28	150	202	
	Hydrocarbons, liquid, n.o.s.	3	UN3295	III	FLAMMABLE LIQUID	144, B1, IB3, T4, TP1, TP29	150	203	
	Hydrochloric acid, anhydrous, see Hydrogen chloride, anhydrous								NA
	Hydrochloric acid	8	UN1789	II	CORROSIVE	A3, A6, B3, B15, IB2, N41, T8, TP2, TP12	154	202	
	Hydrochloric acid	8	UN1789	III	CORROSIVE	A3, IB3, T4, TP1, TP12	154	203	
	Hydrocyanic acid, anhydrous, see Hydrogen cyanide etc								NA
	Hydrocyanic acid, aqueous solutions or Hydrogen cyanide, aqueous solutions with not more than 20 percent hydrogen cyanide	6.1	UN1613	I	POISON	2, B61, B65, B77, B82, T20, TP2, TP13	None	195	Not Accepted by FedEx Ground
D	Hydrocyanic acid, aqueous solutions with less than 5 percent hydrogen cyanide	6.1	NA1613	II	POISON	IB1, T14, TP2, TP13, TP27	None	195	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hydrocyanic acid, liquefied, see Hydrogen cyanide, etc								NA
	Hydrocyanic acid (prussic), unstabilized	Forbidden							Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Hydrofluoric acid and Sulfuric acid mixtures	8 (6.1)	UN1786	I	CORROSIVE, POISON	A6, A7, B15, B23, N5, N34, T10, TP2, TP12, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Hydrofluoric acid, anhydrous, see Hydrogen fluoride, anhydrous</i>								NA
	Hydrofluoric acid, with more than 60 percent strength	8 (6.1)	UN1790	I	CORROSIVE, POISON	A6, A7, B4, B15, B23, N5, N34, T10, TP2, TP12, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hydrofluoric acid, with not more than 60 percent strength	8 (6.1)	UN1790	II	CORROSIVE, POISON	A6, A7, B15, IB2, N5, N34, T8, TP2, TP12	154	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Hydrofluoroboric acid, see Fluoroboric acid</i>								NA
	<i>Hydrofluorosilicic acid, see Fluorosilicic acid</i>								NA
	Hydrogen and Methane mixtures, compressed	2.1	UN2034		FLAMMABLE GAS	N89	306	302	
	Hydrogen bromide, anhydrous	2.3 (8)	UN1048		POISON GAS, CORROSIVE	3, B14, N86, N89	None	304	Not Accepted by FedEx Ground
	Hydrogen chloride, anhydrous	2.3 (8)	UN1050		POISON GAS, CORROSIVE	3, N86, N89	None	304	Not Accepted by FedEx Ground
	Hydrogen chloride, refrigerated liquid	2.3 (8)	UN2186		POISON GAS, CORROSIVE	3, B6	None	None	Not Accepted by FedEx Ground
	Hydrogen, compressed	2.1	UN1049		FLAMMABLE GAS	N89	306	302	
	Hydrogen cyanide, solution in alcohol with not more than 45 percent hydrogen cyanide	6.1 (3)	UN3294	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Hydrogen cyanide, stabilized with less than 3 percent water	6.1 (3)	UN1051	I	POISON, FLAMMABLE LIQUID	1, B35, B61, B65, B77, B82	None	195	Not Accepted by FedEx Ground
	Hydrogen cyanide, stabilized, with less than 3 percent water and absorbed in a porous inert material	6.1	UN1614	I	POISON	5	None	195	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hydrogen fluoride, anhydrous	8 (6.1)	UN1052	I	CORROSIVE, POISON	3, B7, B46, B71, B77, N86, T10, TP2	None	163	Not Accepted by FedEx Ground
	Hydrogen in a metal hydride storage system or Hydrogen in a metal hydride storage system contained in equipment or Hydrogen in a metal hydride storage system packed with equipment	2.1	UN3468		FLAMMABLE GAS	167	None	214	
	Hydrogen iodide, anhydrous	2.3	UN2197		POISON GAS	3, B14, N86, N89	None	304	Not Accepted by FedEx Ground
	<i>Hydrogen iodide solution, see Hydriodic acid</i>								NA
	Hydrogendifluoride, solid, n.o.s	8	UN1740	II	CORROSIVE	IB8, IP2, IP4, N3, N34, T3, TP33	None	212	
	Hydrogendifluoride, solid, n.o.s	8	UN1740	III	CORROSIVE	IB8, IP3, N3, N34, T1, TP33	154	213	
	Hydrogendifluoride solution, n.o.s	8 (6.1)	UN3471	II	CORROSIVE, POISON	IB2, T7, TP2	154	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hydrogendifluoride solution, n.o.s	8 (6.1)	UN3471	III	CORROSIVE, POISON	IB3, T4, TP1	154	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Hydrogen peroxide and peroxyacetic acid mixtures, stabilized with acids, water, and not more than 5 percent peroxyacetic acid	5.1 (8)	UN3149	II	OXIDIZER, CORROSIVE	145, A2, A3, A6, B53, IB2, IP5, T7, TP2, TP6, TP24	None	202	
	Hydrogen, peroxide, aqueous solutions with more than 40 percent but not more than 60 percent hydrogen peroxide (stabilized as necessary)	5.1 (8)	UN2014	II	OXIDIZER, CORROSIVE	12, A60, B53, B80, B81, B85, IB2, IP5, T7, TP2, TP6, TP24, TP37	None	202	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Hydrogen peroxide, aqueous solutions with not less than 20 percent but not more than 40 percent hydrogen peroxide (stabilized as necessary)	5.1 (8)	UN2014	II	OXIDIZER, CORROSIVE	A2, A3, A6, B53, IB2, IP5, T7, TP2, TP6, TP24, TP37	None	202	
	Hydrogen, peroxide, aqueous solutions with not less than 8 percent but less than 20 percent hydrogen peroxide (stabilized as necessary)	5.1	UN2984	III	OXIDIZER	A1, IB2, IP5, T4, TP1, TP6, TP24, TP37	152	203	
	Hydrogen peroxide, stabilized or Hydrogen peroxide aqueous solutions, stabilized with more than 60 percent hydrogen peroxide	5.1 (8)	UN2015	I	OXIDIZER, CORROSIVE	12, B53, B80, B81, B85, T9, TP2, TP6, TP24, TP37	None	201	
	Hydrogen, refrigerated liquid (cryogenic liquid)	2.1	UN1966		FLAMMABLE GAS	T75, TP5	None	316	Not Accepted by FedEx Ground
	Hydrogen selenide, anhydrous	2.3 (2.1)	UN2202		POISON GAS, FLAMMABLE GAS	1	None	192	Not Accepted by FedEx Ground
	Hydrogen sulfate, see Sulfuric acid								NA
	Hydrogen sulfide	2.3 (2.1)	UN1053		POISON GAS, FLAMMABLE GAS	2, B9, B14, N89	None	304	Not Accepted by FedEx Ground
	Hydroxilicofluoric acid, see Fluorosilicic acid								NA
	1-Hydroxybenzotriazole, anhydrous, dry or wetted with less than 20 percent water, by mass	1.3C	UN0508		EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	1-Hydroxybenzotriazole, anhydrous, wetted with not less than 20 percent water, by mass	4.1	UN3474	I	FLAMMABLE SOLID	162, N90	None	211	
	Hydroxyl amine iodide	Forbidden							Not Accepted by FedEx Ground
	Hydroxylamine sulfate	8	UN2865	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Hypochlorite solutions	8	UN1791	II	CORROSIVE	A7, B2, B15, IB2, IP5, N34, T7, TP2, TP24	154	202	
	Hypochlorite solutions	8	UN1791	III	CORROSIVE	IB3, N34, T4, TP2, TP33	154	203	
	Hypochlorites, inorganic, n.o.s.	5.1	UN3212	II	OXIDIZER	A9, IB8, IP2, IP4, T3, TP33	152	212	
	Hyponitrous acid	Forbidden							Not Accepted by FedEx Ground
	Igniter fuse, metal clad, see Fuse, igniter, tubular, metal clad								NA
	Igniters	1.1G	UN0121	II	EXPLOSIVE 1.1G		None	62	Not Accepted by FedEx Ground
	Igniters	1.2G	UN0314	II	EXPLOSIVE 1.2G		None	62	Not Accepted by FedEx Ground
	Igniters	1.3G	UN0315	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	Igniters	1.4G	UN0325	II	EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Igniters	1.4S	UN0454	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	3,3'-Iminodipropylamine	8	UN2269	III	CORROSIVE	IB3, T4, TP2	154	203	
G	Infectious substances, affecting animals only	6.2	UN2900		INFECTIOUS SUBSTANCE	A82	134	196	Not Accepted by FedEx Ground
G	Infectious substances, affecting humans	6.2	UN2814		INFECTIOUS SUBSTANCE	A82	134	196	Not Accepted by FedEx Ground
	Inflammable, see Flammable								NA
	Initiating explosives (dry)	Forbidden							Not Accepted by FedEx Ground
	Inositol hexanitrate (dry)	Forbidden							Not Accepted by FedEx Ground
G	Insecticide gases, n.o.s.	2.2	UN1968		NONFLAMMABLE GAS		306	304	
G	Insecticide gases, flammable, n.o.s.	2.1	UN3354		FLAMMABLE GAS	T50	306	304	
G	Insecticide gases, toxic, flammable, n.o.s. Inhalation hazard Zone A	2.3 (2.1)	UN3355		POISON GAS, FLAMMABLE GAS	1	None	192	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
G	Insecticide gases, toxic, flammable, n.o.s. <i>Inhalation hazard Zone B</i>	2.3 (2.1)	UN3355		POISON GAS, FLAMMABLE GAS	2, B9, B14	None	302, 305	Not Accepted by FedEx Ground
G	Insecticide gases, toxic, flammable, n.o.s. <i>Inhalation hazard Zone C</i>	2.3 (2.1)	UN3355		POISON GAS, FLAMMABLE GAS	3, B14	None	302, 305	Not Accepted by FedEx Ground
G	Insecticide gases, toxic, flammable, n.o.s. <i>Inhalation hazard Zone D</i>	2.3 (2.1)	UN3355		POISON GAS, FLAMMABLE GAS	4	None	302, 305	Not Accepted by FedEx Ground
G	Insecticide gases, toxic, n.o.s.	2.3	UN1967		POISON GAS	3	None	193, 334	Not Accepted by FedEx Ground
	<i>Inulin trinitrate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Iodine azide (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Iodine monochloride	8	UN1792	II	CORROSIVE	B6, IB8, IP2, IP4, N41, T7, TP2	None	212	
	Iodine pentafluoride	5.1 (6.1, 8)	UN2495	I	OXIDIZER, POISON, CORROSIVE		None	205	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2-Iodobutane	3	UN2390	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Iodomethylpropanes	3	UN2391	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Iodopropanes	3	UN2392	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>Iodoxy compounds (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Iridium nitratopentamine iridium nitrate</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Iron chloride, see Ferric chloride</i>								NA
	Iron oxide, spent, or Iron sponge, spent obtained from coal gas purification	4.2	UN1376	III	SPONTANEOUSLY COMBUSTIBLE	B18, IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
	Iron pentacarbonyl	6.1 (3)	UN1994	I	POISON, FLAMMABLE LIQUID	1, B9, B14, B30, B72, B77, T22, TP2, TP13, TP38, TP44	None	226	Not Accepted by FedEx Ground
	<i>Iron sesquichloride, see Ferric chloride</i>								NA
	<i>Irritating material, see Tear gas substances, etc</i>								NA
	Isobutane see also Petroleum gases, liquefied	2.1	UN1969		FLAMMABLE GAS	19, T50	306	304	
	Isobutanol or Isobutyl alcohol	3	UN1212	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Isobutyl acetate	3	UN1213	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Isobutyl acrylate, stabilized	3	UN2527	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Isobutyl alcohol, see Isobutanol								NA
	Isobutyl aldehyde, see Isobutyraldehyde								NA
D	Isobutyl chloroformate	6.1 (3, 8)	NA2742	I	POISON, FLAMMABLE LIQUID, CORROSIVE	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Isobutyl formate	3	UN2393	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Isobutyl isobutyrate	3	UN2528	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
+	Isobutyl isocyanate	3 (6.1)	UN2486	I	FLAMMABLE LIQUID, POISON	1, B9, B14, B30, B72, T22, TP2, TP13, TP27	None	226	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Isobutyl methacrylate, stabilized	3	UN2283	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Isobutyl propionate	3	UN2394	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Isobutylamine	3 (8)	UN1214	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1	150	202	
	Isobutylene see also Petroleum gases, liquefied	2.1	UN1055		FLAMMABLE GAS	19, T50	306	304	
	Isobutyraldehyde or Isobutyl aldehyde	3	UN2045	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Isobutyric acid	3 (8)	UN2529	III	FLAMMABLE LIQUID, CORROSIVE	B1, IB3, T4, TP1	150	203	
	Isobutyronitrile	3 (6.1)	UN2284	II	FLAMMABLE LIQUID, POISON	IB2, T7, TP2, TP13	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Isobutryl chloride	3 (8)	UN2395	II	FLAMMABLE LIQUID, CORROSIVE	IB1, T7, TP2	150	202	
G	Isocyanates, flammable, toxic, n.o.s. or Isocyanate solutions, flammable, toxic, n.o.s. flash point less than 23 degrees C	3 (6.1)	UN2478	II	FLAMMABLE LIQUID, POISON	5, A3, A7, IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Isocyanates, flammable, toxic, n.o.s. or Isocyanate solutions, flammable, toxic, n.o.s. flash point less than 23 degrees C	3 (6.1)	UN2478	III	FLAMMABLE LIQUID, POISON	5, A3, A7, IB3, T7, TP1, TP13, TP28	150	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Isocyanates, toxic, flammable, n.o.s. or Isocyanate solutions, toxic, flammable, n.o.s., flash point not less than 23 degrees C but not more than 61 degrees C and boiling point less than 300 degrees C	6.1 (3)	UN3080	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Isocyanates, toxic, n.o.s. or Isocyanate solutions, toxic, n.o.s., flash point more than 61 degrees C and boiling point less than 300 degrees C	6.1	UN2206	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Isocyanates, toxic, n.o.s. or Isocyanate solutions, toxic, n.o.s., flash point more than 61 degrees C and boiling point less than 300 degrees C	6.1	UN2206	III	POISON	IB3, T7, TP1, TP13, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Isocyanatobenzotrifluorides	6.1 (3)	UN2285	II	POISON, FLAMMABLE LIQUID	5, IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Isoheptenes	3	UN2287	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Isohexenes	3	UN2288	II	FLAMMABLE LIQUID	IB2, IP8, T11, TP1	150	202	
	Isooctane, see Octanes								NA
	Isooctenes	3	UN1216	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Isopentane, see Pentane								NA
	Isopentanoic acid, see Corrosive liquids, n.o.s.								NA
	Isopentenes	3	UN2371	I	FLAMMABLE LIQUID	T11, TP2	150	201	
	Isophorone diisocyanate	6.1	UN2290	III	POISON	IB3, T4, TP2	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Isophoronediamine	8	UN2289	III	CORROSIVE	IB3, T4, TP1	154	203	
	Isoprene, stabilized	3	UN1218	I	FLAMMABLE LIQUID	T11, TP2	150	201	
	Isopropanol or Isopropyl alcohol	3	UN1219	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Isopropenyl acetate	3	UN2403	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Isopropenylbenzene	3	UN2303	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Isopropyl acetate	3	UN1220	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Isopropyl acid phosphate	8	UN1793	III	CORROSIVE	IB2, T4, TP1	154	213	
	Isopropyl alcohol, see Isopropanol								NA
	Isopropyl butyrate	3	UN2405	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Isopropyl chloroacetate	3	UN2947	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Isopropyl chloroformate	6.1 (3, 8)	UN2407	I	POISON, FLAMMABLE LIQUID, CORROSIVE	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP44	None	227	Not Accepted by FedEx Ground
	Isopropyl 2-chloropropionate	3	UN2934	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Isopropyl isobutyrate	3	UN2406	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
+	Isopropyl isocyanate	3 (6.1)	UN2483	I	FLAMMABLE LIQUID, POISON	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Isopropyl mercaptan, see Propanethiols								NA
	Isopropyl nitrate	3	UN1222	II	FLAMMABLE LIQUID	IB9	150	202	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	<i>Isopropyl phosphoric acid, see Isopropyl acid phosphate</i>								NA
	Isopropyl propionate	3	UN2409	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Isopropylamine	3 (8)	UN1221	I	FLAMMABLE LIQUID, CORROSIVE	T11, TP2	None	201	
	Isopropylbenzene	3	UN1918	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>Isopropylcumyl hydroperoxide, with more than 72 percent in solution</i>	Forbidden							Not Accepted by FedEx Ground
	Isosorbide dinitrate mixture with not less than 60 percent lactose, mannose, starch or calcium hydrogen phosphate	4.1	UN2907	II	FLAMMABLE SOLID	IB6, IP2, N85	None	212	
	Isosorbide-5-mononitrate	4.1	UN3251	III	FLAMMABLE SOLID	66, IB8	151	213	
	<i>Isothiocyanic acid</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Jet fuel, see Fuel aviation, turbine engine</i>								NA
D	Jet perforating guns, charged oil well, with detonator	1.1D	NA0124	II	EXPLOSIVE 1.1D	55, 56	None	62	Not Accepted by FedEx Ground
D	Jet perforating guns, charged oil well, with detonator	1.4D	NA0494	II	EXPLOSIVE 1.4D	55, 56	None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Jet perforating guns, charged oil well, without detonator	1.1D	UN0124	II	EXPLOSIVE 1.1D	55	None	62	Not Accepted by FedEx Ground
	Jet perforating guns, charged, oil well, without detonator	1.4D	UN0494	II	EXPLOSIVE 1.4D	55, 114	None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	<i>Jet perforators, see Charges, shaped, etc</i>								NA
	<i>Jet tappers, without detonator, see Charges, shaped, etc</i>								NA
	<i>Jet thrust igniters, for rocket motors or Jato, see Igniters</i>								NA
	<i>Jet thrust unit (Jato), see Rocket motors</i>								NA
	Kerosene	3	UN1223	III	FLAMMABLE LIQUID	144, B1, IB3, T2, TP2	150	203	
G	Ketones, liquid, n.o.s.	3	UN1224	I	FLAMMABLE LIQUID	T11, TP1, TP8, TP27	None	201	
G	Ketones, liquid, n.o.s.	3	UN1224	II	FLAMMABLE LIQUID	IB2, T7, TP1, TP8, TP28	150	202	
G	Ketones, liquid, n.o.s.	3	UN1224	III	FLAMMABLE LIQUID	B1, IB3, T4, TP1, TP29	150	203	
	Krypton, compressed	2.2	UN1056		NONFLAMMABLE GAS		306	302	
	Krypton, refrigerated liquid (cryogenic liquid)	2.2	UN1970		NONFLAMMABLE GAS	T75, TP5	320	None	Accepted only when packaged under exception 49CFR 173.320
	<i>Lacquer base or lacquer chips, nitrocellulose, dry, see Nitrocellulose, etc. (UN 2557)</i>								NA
	<i>Lacquer base or lacquer chips, plastic, wet with alcohol or solvent, see Nitrocellulose (UN2059, UN2555, UN2556, UN2557) or Paint etc.(UN1263)</i>								NA
	Lead acetate	6.1	UN1616	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Lead arsenates	6.1	UN1617	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	Lead arsenites	6.1	UN1618	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Lead azide (dry)</i>	Forbidden							Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Lead azide, wetted with not less than 20 percent water or mixture of alcohol and water, by mass	1.1A	UN0129	II	EXPLOSIVE 1.1A	111, 117	None	62	Not Accepted by FedEx Ground
	Lead compounds, soluble, n.o.s.	6.1	UN2291	III	POISON	138, IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Lead cyanide	6.1	UN1620	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Lead dioxide	5.1	UN1872	III	OXIDIZER	A1, IB8, IP3, T1, TP33	152	213	
	<i>Lead dross, see Lead sulfate, with more than 3 percent free acid</i>								NA
	Lead nitrate	5.1 (6.1)	UN1469	II	OXIDIZER, POISON	IB8, IP2, IP4, T3, TP33	152	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	<i>Lead nitroresorcinate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Lead perchlorate, solid	5.1 (6.1)	UN1470	II	OXIDIZER, POISON	IB6, IP2, T3, TP33	152	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Lead perchlorate, solution	5.1 (6.1)	UN3408	II	OXIDIZER, POISON	IB2, T4, TP1	152	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Lead perchlorate, solution	5.1 (6.1)	UN3408	III	OXIDIZER, POISON	IB2, T4, TP1	152	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Lead peroxide, see Lead dioxide</i>								NA
	Lead phosphite, dibasic	4.1	UN2989	II	FLAMMABLE SOLID	IB8, IP2, IP4, T3, TP33	None	212	
	Lead phosphite, dibasic	4.1	UN2989	III	FLAMMABLE SOLID	IB8, IP3, T1, TP33	151	213	
	<i>Lead picrate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Lead styphnate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Lead styphnate, wetted or Lead trinitroresorcinate, wetted with not less than 20 percent water or mixture of alcohol and water, by mass	1.1A	UN0130	II	EXPLOSIVE 1.1A	111, 117	None	62	Not Accepted by FedEx Ground
	Lead sulfate with more than 3 percent free acid	8	UN1794	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	Not to exceed 10 lb. (4.45kg) per package- see RQ Table
	<i>Lead trinitroresorcinate, see Lead styphnate, etc</i>								NA
	Life-saving appliances, not self inflating containing dangerous goods as equipment	None	UN3072		NONE		None	219	
	Life-saving appliances, self inflating	None	UN2990		NONE		None	219	
	Lighters containing flammable gas	2.1	UN1057		FLAMMABLE GAS	168	21,308	21,308	"T" number or alpha/number required
	<i>Lighters, new or empty, purged of all residual fuel and vapors</i>					168			NA
	Lighters, non-pressurized, containing flammable liquid,	3	NA1057	II	FLAMMABLE LIQUID	168	21	None	"T" number or alpha/number required
	Lighter refills containing flammable gas not exceeding 4 fluid ounces (7.22 cubic inches) and 65 grams of flammable gas	2.1	UN1057		FLAMMABLE GAS	169	306	306	"T" number or alpha/number required
	<i>Lighter replacement cartridges containing liquefied petroleum gases see Lighter refills containing flammable gas. Etc.</i>								NA
	Lighters, fuse	1.4S	UN0131	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	<i>Lime, unslaked, see Calcium oxide</i>								NA
G	Liquefied gas, flammable, n.o.s.	2.1	UN3161		FLAMMABLE GAS	T50	306	304	
G	Liquefied gas, n.o.s.	2.2	UN3163		NONFLAMMABLE GAS	T50	306	304	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
G	Liquefied gas, oxidizing, n.o.s.	2.2 (5.1)	UN3157		NONFLAMMABLE GAS, OXIDIZER	A14	306	304	
G I	Liquefied gas, toxic, corrosive, n.o.s. <i>Inhalation Hazard Zone A</i>	2.3 (8)	UN3308		POISON GAS, CORROSIVE	1	None	192	Not Accepted by FedEx Ground
G I	Liquefied gas, toxic, corrosive, n.o.s. <i>Inhalation Hazard Zone B</i>	2.3 (8)	UN3308		POISON GAS, CORROSIVE	2, B9, B14	None	304	Not Accepted by FedEx Ground
G I	Liquefied gas, toxic, corrosive, n.o.s. <i>Inhalation Hazard Zone C</i>	2.3 (8)	UN3308		POISON GAS, CORROSIVE	3, B14	None	304	Not Accepted by FedEx Ground
G I	Liquefied gas, toxic, corrosive, n.o.s. <i>Inhalation Hazard Zone D</i>	2.3 (8)	UN3308		POISON GAS, CORROSIVE	4	None	304	Not Accepted by FedEx Ground
G I	Liquefied gas, toxic, flammable, corrosive, n.o.s. <i>Inhalation Hazard Zone A</i>	2.3 (2.1, 8)	UN3309		POISON GAS, FLAMMABLE GAS, CORROSIVE	1	None	192	Not Accepted by FedEx Ground
G I	Liquefied gas toxic, flammable, corrosive, n.o.s. <i>Inhalation Hazard Zone B</i>	2.3 (2.1, 8)	UN3309		POISON GAS, FLAMMABLE GAS, CORROSIVE	2, B9, B14	None	304	Not Accepted by FedEx Ground
G I	Liquefied gas, toxic, flammable, corrosive, n.o.s. <i>Inhalation Hazard Zone C</i>	2.3 (2.1, 8)	UN3309		POISON GAS, FLAMMABLE GAS, CORROSIVE	3, B14	None	304	Not Accepted by FedEx Ground
G I	Liquefied gas, toxic, flammable, corrosive, n.o.s. <i>Inhalation Hazard Zone D</i>	2.3 (2.1, 8)	UN3309		POISON GAS, FLAMMABLE GAS, CORROSIVE	4	None	304	Not Accepted by FedEx Ground
G	Liquefied gas, toxic, flammable, n.o.s. <i>Inhalation Hazard Zone A</i>	2.3 (2.1)	UN3160		POISON GAS, FLAMMABLE GAS	1	None	192	Not Accepted by FedEx Ground
G	Liquefied gas, toxic, flammable, n.o.s. <i>Inhalation Hazard Zone B</i>	2.3 (2.1)	UN3160		POISON GAS, FLAMMABLE GAS	2, B9, B14	None	304	Not Accepted by FedEx Ground
G	Liquefied gas, toxic, flammable, n.o.s. <i>Inhalation Hazard Zone C</i>	2.3 (2.1)	UN3160		POISON GAS, FLAMMABLE GAS	3, B14	None	304	Not Accepted by FedEx Ground
G	Liquefied gas, toxic, flammable, n.o.s. <i>Inhalation Hazard Zone D</i>	2.3 (2.1)	UN3160		POISON GAS, FLAMMABLE GAS	4	None	304	Not Accepted by FedEx Ground
G	Liquefied gas, toxic, n.o.s. <i>Inhalation Hazard Zone A</i>	2.3	UN3162		POISON GAS	1	None	192	Not Accepted by FedEx Ground
G	Liquefied gas, toxic, n.o.s. <i>Inhalation Hazard Zone B</i>	2.3	UN3162		POISON GAS	2, B9, B14	None	304	Not Accepted by FedEx Ground
G	Liquefied gas, toxic, n.o.s. <i>Inhalation Hazard Zone C</i>	2.3	UN3162		POISON GAS	3, B14	None	304	Not Accepted by FedEx Ground
G	Liquefied gas, toxic, n.o.s. <i>Inhalation Hazard Zone D</i>	2.3	UN3162		POISON GAS	4	None	304	Not Accepted by FedEx Ground
G I	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. <i>Inhalation Hazard Zone A</i>	2.3 (5.1, 8)	UN3310		POISON GAS, OXIDIZER, CORROSIVE	1	None	192	Not Accepted by FedEx Ground
G I	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. <i>Inhalation Hazard Zone B</i>	2.3 (5.1, 8)	UN3310		POISON GAS, OXIDIZER, CORROSIVE	2, B9, B14	None	304	Not Accepted by FedEx Ground
G I	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. <i>Inhalation Hazard Zone C</i>	2.3 (5.1, 8)	UN3310		POISON GAS, OXIDIZER, CORROSIVE	3, B14	None	304	Not Accepted by FedEx Ground
G I	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. <i>Inhalation Hazard Zone D</i>	2.3 (5.1, 8)	UN3310		POISON GAS, OXIDIZER, CORROSIVE	4	None	304	Not Accepted by FedEx Ground
G	Liquefied gas, toxic, oxidizing, n.o.s. <i>Inhalation Hazard Zone A</i>	2.3 (5.1)	UN3307		POISON GAS, OXIDIZER	1	None	192	Not Accepted by FedEx Ground
G	Liquefied gas, toxic, oxidizing, n.o.s. <i>Inhalation Hazard Zone B</i>	2.3 (5.1)	UN3307		POISON GAS, OXIDIZER	2, B9, B14	None	304	Not Accepted by FedEx Ground
G	Liquefied gas, toxic, oxidizing, n.o.s. <i>Inhalation Hazard Zone C</i>	2.3 (5.1)	UN3307		POISON GAS, OXIDIZER	3, B14	None	304	Not Accepted by FedEx Ground
G	Liquefied gas, toxic, oxidizing, n.o.s. <i>Inhalation Hazard Zone D</i>	2.3 (5.1)	UN3307		POISON GAS, OXIDIZER	4	None	304	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Liquefied gases, non-flammable charged with nitrogen, carbon dioxide or air	2.2	UN1058		NONFLAMMABLE GAS		306	304	
	Liquefied hydrocarbon gas, see Hydrocarbon gas mixture, liquefied, n.o.s.								NA
	Liquefied natural gas, see Methane, etc. (UN 1972)								NA
	Liquefied petroleum gas see Petroleum gases, liquefied								NA
	Lithium	4.3	UN1415	I	DANGEROUS WHEN WET	A7, A19, IB4, IP1, N45	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Lithium acetylide ethylenediamine complex, see Water reactive solid etc								NA
	Lithium aluminum hydride	4.3	UN1410	I	DANGEROUS WHEN WET	A19	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Lithium aluminum hydride, ethereal	4.3 (3)	UN1411	I	DANGEROUS WHEN WET, FLAMMABLE LIQUID	A2, A3, A11, N34	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Lithium batteries, contained in equipment	9	UN3091	II	CLASS 9	29, 188, 189, 190, A54, A55, A101, A104	185	185	
	Lithium batteries packed with equipment	9	UN3091	II	CLASS 9	29, 188, 189, 190, A54, A55, A101, A103	185	185	
	Lithium battery	9	UN3090	II	CLASS 9	29, 188, 189, 190, A54, A55, A100.	185	185	
	Lithium borohydride	4.3	UN1413	I	DANGEROUS WHEN WET	A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Lithium ferrosilicon	4.3	UN2830	II	DANGEROUS WHEN WET	A19, IB7, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Lithium hydride	4.3	UN1414	I	DANGEROUS WHEN WET	A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Lithium hydride, fused solid	4.3	UN2805	II	DANGEROUS WHEN WET	A8, A19, A20, IB4, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Lithium hydroxide	8	UN2680	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Lithium hydroxide, solution	8	UN2679	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	Lithium hydroxide, solution	8	UN2679	III	CORROSIVE	IB3, T4, TP2	154	203	
	Lithium hypochlorite, dry with more than 39% available chlorine (8.8% available oxygen) or Lithium hypochlorite mixtures, dry with more than 39% available chlorine (8.8% available oxygen)	5.1	UN1471	II	OXIDIZER	A9, IB8, IP2, IP4, N34	152	212	
	Lithium in cartridges, see Lithium								NA
	Lithium nitrate	5.1	UN2722	III	OXIDIZER	A1, IB8, IP3, T1, TP33	152	213	
	Lithium nitride	4.3	UN2806	I	DANGEROUS WHEN WET	A19, IB4, IP1, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Lithium peroxide	5.1	UN1472	II	OXIDIZER	A9, IB6, IP2, N34, T3, TP33	152	212	
	Lithium silicon	4.3	UN1417	II	DANGEROUS WHEN WET	A19, A20, IB7, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	LNG, see Methane etc. (UN 1972)								NA
	London purple	6.1	UN1621	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	LPG, see Petroleum gases, liquefied								NA
	Lye, see Sodium hydroxide, solutions								NA
	Magnesium aluminum phosphide	4.3 (6.1)	UN1419	I	DANGEROUS WHEN WET, POISON	A19, N34, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
+	Magnesium arsenate	6.1	UN1622	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Magnesium bisulfite solution, see Bisulfites, aqueous solutions, n.o.s.								NA
	Magnesium bromate	5.1	UN1473	II	OXIDIZER	A1, IB8, IP4, T3, TP33	152	212	
	Magnesium chlorate	5.1	UN2723	II	OXIDIZER	IB8, IP2, IP4, T3, TP33	152	212	
	Magnesium diamide	4.2	UN2004	II	SPONTANEOUSLY COMBUSTIBLE	A8, A19, A20, IB6, T3, TP33	None	212	Not Accepted by FedEx Ground
	Magnesium dross, wet or hot	Forbidden							Not Accepted by FedEx Ground
	Magnesium fluorosilicate	6.1	UN2853	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Magnesium granules, coated, particle size not less than 149 microns	4.3	UN2950	III	DANGEROUS WHEN WET	A1, A19, IB8, IP4, T1, TP33	151	213	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Magnesium hydride	4.3	UN2010	I	DANGEROUS WHEN WET	A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Magnesium or Magnesium alloys with more than 50 percent magnesium in pellets, turnings or ribbons	4.1	UN1869	III	FLAMMABLE SOLID	A1, IB8, IP3, T1, TP33	151	213	
	Magnesium nitrate	5.1	UN1474	III	OXIDIZER	A1, IB8, IP3, T1, TP33	152	213	
	Magnesium perchlorate	5.1	UN1475	II	OXIDIZER	IB6, IP2, T3, TP33	152	212	
	Magnesium peroxide	5.1	UN1476	II	OXIDIZER	IB6, IP2, T3, TP33	152	212	
	Magnesium phosphide	4.3 (6.1)	UN2011	I	DANGEROUS WHEN WET, POISON	A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Magnesium, powder or Magnesium alloys, powder	4.3 (4.2)	UN1418	I	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	A19, B56	None	211	Not Accepted by FedEx Ground
	Magnesium, powder or Magnesium alloys, powder	4.3 (4.2)	UN1418	II	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	A19, B56, IB5, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
	Magnesium, powder or Magnesium alloys, powder	4.3 (4.2)	UN1418	III	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	A19, B56, IB8, IP4, T1, TP33	None	213	Not Accepted by FedEx Ground
	Magnesium scrap, see Magnesium, etc. (UN 1869)								NA
	Magnesium silicide	4.3	UN2624	II	DANGEROUS WHEN WET	A19, A20, IB7, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Magnetized material, see §173.21								NA
	Maleic anhydride	8	UN2215	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Maleic anhydride, molten	8	UN2215	III	CORROSIVE	T4, TP3	None	213	
	Malononitrile	6.1	UN2647	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	<i>Mancozeb (manganese ethylenebisdithiocarbamate complex with zinc) see Maneb</i>								NA
	Maneb or Maneb preparations with not less than 60 percent maneb	4.2 (4.3)	UN2210	III	SPONTANEOUSLY COMBUSTIBLE, DANGEROUS WHEN WET	57, A1, A19, IB6, T1, TP33	None	213	Not Accepted by FedEx Ground
	Maneb stabilized or Maneb preparations, stabilized against self-heating	4.3	UN2968	III	DANGEROUS WHEN WET	54, A1, A19, IB8, IP4, T1, TP33	151	213	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Manganese nitrate	5.1	UN2724	III	OXIDIZER	A1, IB8, IP3, T1, TP33	152	213	
	Manganese resinate	4.1	UN1330	III	FLAMMABLE SOLID	A1, IB6, T1, TP33	151	213	
	<i>Mannitan tetranitrate</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Mannitol hexanitrate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Mannitol hexanitrate, wetted or Nitromannite, wetted with not less than 40 percent water, or mixture of alcohol and water, by mass	1.1D	UN0133	II	EXPLOSIVE 1.1D	121	None	62	Not Accepted by FedEx Ground
	<i>Marine pollutants, liquid or solid, n.o.s., see Environmentally hazardous substances, liquid or solid, n.o.s.</i>								NA
	<i>Matches, block, see Matches, 'strike anywhere'</i>								NA
	Matches, fusee	4.1	UN2254	III	FLAMMABLE SOLID		186	186	
	Matches, safety (book, card or strike on box)	4.1	UN1944	III	FLAMMABLE SOLID		186	186	May not be regulated via highway
	Matches, strike anywhere	4.1	UN1331	III	FLAMMABLE SOLID		186	186	
	Matches, wax, Vesta	4.1	UN1945	III	FLAMMABLE SOLID		186	186	May not be regulated via highway
	<i>Matting acid, see Sulfuric acid</i>								NA
	Medicine, liquid, flammable, toxic, n.o.s.	3 (6.1)	UN3248	II	FLAMMABLE LIQUID, POISON	36, IB2	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Medicine, liquid, flammable, toxic, n.o.s.	3 (6.1)	UN3248	III	FLAMMABLE LIQUID, POISON	36, IB3	150	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Medicine, liquid, toxic, n.o.s.	6.1	UN1851	II	POISON	36	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Medicine, liquid, toxic, n.o.s.	6.1	UN1851	III	POISON	36	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Medicine, solid, toxic, n.o.s.	6.1	UN3249	II	POISON	36, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Medicine, solid, toxic, n.o.s.	6.1	UN3249	III	POISON	36, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Memtetrahydrophthalic anhydride, see Corrosive liquids, n.o.s.</i>								NA
	Mercaptans, liquid, flammable, n.o.s. or Mercaptan mixture, liquid, flammable, n.o.s.	3	UN3336	I	FLAMMABLE LIQUID	T11, TP2	150	201	
	Mercaptans, liquid, flammable, n.o.s. or Mercaptan mixture, liquid, flammable, n.o.s.	3	UN3336	II	FLAMMABLE LIQUID	IB2, T7, TP1, TP8, TP28	150	202	
	Mercaptans, liquid, flammable, n.o.s. or Mercaptan mixture, liquid, flammable, n.o.s.	3	UN3336	III	FLAMMABLE LIQUID	B1, B52, IB3, T4, TP1, TP29	150	203	
	Mercaptans, liquid, flammable, toxic, n.o.s. or Mercaptan mixtures, liquid, flammable, toxic, n.o.s.	3 (6.1)	UN1228	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP27	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Mercaptans, liquid, flammable, toxic, n.o.s. or Mercaptan mixtures, liquid, flammable, toxic, n.o.s.	3 (6.1)	UN1228	III	FLAMMABLE LIQUID, POISON	A6, B1, IB3, T7, TP1, TP28	150	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercaptans, liquid, toxic, flammable, n.o.s. or Mercaptan mixtures, liquid, toxic, flammable, n.o.s., flash point not less than 23 degrees C	6.1 (3)	UN3071	II	POISON, FLAMMABLE LIQUID	A6, IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	5-Mercaptotetrazol-1-acetic acid	1.4C	UN0448	II	EXPLOSIVE 1.4C		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Mercuric arsenate	6.1	UN1623	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercuric chloride	6.1	UN1624	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Mercuric compounds, see Mercury compounds, etc</i>								NA
	Mercuric nitrate	6.1	UN1625	II	POISON	IB8, IP2, IP4, N73, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
+	Mercuric potassium cyanide	6.1	UN1626	I	POISON	IB7, IP1, N74, N75, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Mercuric sulfocyanate, see Mercury thiocyanate</i>								NA
	<i>Mercuriol, see Mercury nucleate</i>								NA
	<i>Mercurous azide</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Mercurous compounds, see Mercury compounds, etc</i>								NA
	Mercurous nitrate	6.1	UN1627	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
A W	Mercury	8	UN2809	III	CORROSIVE		164	164	May not be regulated via highway. Not accepted if package exceeds 1 lb. (0.454kg) of Mercury-see RQ Table
	Mercury acetate	6.1	UN1629	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Mercury acetylde</i>	Forbidden							Not Accepted by FedEx Ground
	Mercury ammonium chloride	6.1	UN1630	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury based pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2778	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury based pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2778	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury based pesticides, liquid, toxic	6.1	UN3012	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury based pesticides, liquid, toxic	6.1	UN3012	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury based pesticides, liquid, toxic	6.1	UN3012	III	POISON	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury based pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3011	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury based pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3011	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Mercury based pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3011	III	POISON, FLAMMABLE LIQUID	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury based pesticides, solid, toxic	6.1	UN2777	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury based pesticides, solid, toxic	6.1	UN2777	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury based pesticides, solid, toxic	6.1	UN2777	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury benzoate	6.1	UN1631	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury bromides	6.1	UN1634	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury compounds, liquid, n.o.s.	6.1	UN2024	I	POISON		None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury compounds, liquid, n.o.s.	6.1	UN2024	II	POISON	IB2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury compounds, liquid, n.o.s.	6.1	UN2024	III	POISON	IB3	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury compounds, solid, n.o.s.	6.1	UN2025	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury compounds, solid, n.o.s.	6.1	UN2025	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury compounds, solid, n.o.s.	6.1	UN2025	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
A	Mercury contained in manufactured articles	8	UN2809	III	CORROSIVE		None	164	May not be regulated via highway. Not accepted if package exceeds 1 lb. (0.454kg) of Mercury-see RQ Table
	Mercury cyanide	6.1	UN1636	II	POISON	IB8, IP2, IP4, N74, N75, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury fulminate, wetted with not less than 20 percent water, or mixture of alcohol and water, by mass	1.1A	UN0135	II	EXPLOSIVE 1.1A	111, 117	None	62	Not Accepted by FedEx Ground
	Mercury gluconate	6.1	UN1637	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury iodide	6.1	UN1638	II	POISON	IB2, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Mercury iodide aquabasic ammonobasic (Iodide of Millon's base)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Mercury nitride</i>	Forbidden							Not Accepted by FedEx Ground
	Mercury nucleate	6.1	UN1639	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury oleate	6.1	UN1640	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury oxide	6.1	UN1641	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Mercury oxycyanide</i>	Forbidden							Not Accepted by FedEx Ground
	Mercury oxycyanide, desensitized	6.1	UN1642	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury potassium iodide	6.1	UN1643	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury salicylate	6.1	UN1644	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
+	Mercury sulfates	6.1	UN1645	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Mercury thiocyanate	6.1	UN1646	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Mesityl oxide	3	UN1229	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
G	Metal carbonyls, liquid, n.o.s.	6.1	UN3281	I	POISON	5, T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Metal carbonyls, liquid, n.o.s.	6.1	UN3281	II	POISON	IB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Metal carbonyls, liquid, n.o.s.	6.1	UN3281	III	POISON	IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Metal carbonyls, solid, n.o.s.	6.1	UN3466	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Metal carbonyls, solid, n.o.s.	6.1	UN3466	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Metal carbonyls, solid, n.o.s.	6.1	UN3466	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Metal catalyst, dry	4.2	UN2881	I	SPONTANEOUSLY COMBUSTIBLE	N34, T21, TP7, TP33	None	187	Not Accepted by FedEx Ground
	Metal catalyst, dry	4.2	UN2881	II	SPONTANEOUSLY COMBUSTIBLE	IB6, IP2, N34, T3, TP33	None	187	Not Accepted by FedEx Ground
	Metal catalyst, dry	4.2	UN2881	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, N34, T1, TP33	None	187	Not Accepted by FedEx Ground
	Metal catalyst, wetted with a visible excess of liquid	4.2	UN1378	II	SPONTANEOUSLY COMBUSTIBLE	A2, A8, IB1, N34, T3, TP33	None	212	Not Accepted by FedEx Ground
	Metal hydrides, flammable, n.o.s.	4.1	UN3182	II	FLAMMABLE SOLID	A1, IB4, T3, TP33	151	212	
	Metal hydrides, flammable, n.o.s.	4.1	UN3182	III	FLAMMABLE SOLID	A1, IB4, T1, TP33	151	213	
	Metal hydrides, water reactive, n.o.s.	4.3	UN1409	I	DANGEROUS WHEN WET	A19, N34, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Metal hydrides, water reactive, n.o.s.	4.3	UN1409	II	DANGEROUS WHEN WET	A19, IB4, N34, N40, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	Metal powder, self-heating, n.o.s.	4.2	UN3189	II	SPONTANEOUSLY COMBUSTIBLE	IB6, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
	Metal powder, self-heating, n.o.s.	4.2	UN3189	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
	Metal powders, flammable, n.o.s.	4.1	UN3089	II	FLAMMABLE SOLID	IB8, IP2, IP4, T3, TP33	151	212	
	Metal powders, flammable, n.o.s.	4.1	UN3089	III	FLAMMABLE SOLID	IB6, T1, TP33	151	213	
	Metal salts of methyl nitramine (dry)	Forbidden							Not Accepted by FedEx Ground
G	Metal salts of organic compounds, flammable, n.o.s.	4.1	UN3181	II	FLAMMABLE SOLID	A1, IB8, IP2, IP4, T3, TP33	151	212	
G	Metal salts of organic compounds, flammable, n.o.s.	4.1	UN3181	III	FLAMMABLE SOLID	A1, IB8, IP3, T1, TP33	151	213	
	Metaldehyde	4.1	UN1332	III	FLAMMABLE SOLID	A1, IB8, IP3, T1, TP33	151	213	
G	Metallic substance, water-reactive, n.o.s.	4.3	UN3208	I	DANGEROUS WHEN WET	A7, IB4	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Metallic substance, water-reactive, n.o.s.	4.3	UN3208	II	DANGEROUS WHEN WET	A7, IB7, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
G	Metallic substance, water-reactive, n.o.s.	4.3	UN3208	III	DANGEROUS WHEN WET	A7, IB8, IP4, T1, TP33	151	213	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
G	Metallic substance, water-reactive, self-heating, n.o.s.	4.3 (4.2)	UN3209	I	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	A7	None	211	Not Accepted by FedEx Ground
G	Metallic substance, water-reactive, self-heating, n.o.s.	4.3 (4.2)	UN3209	II	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	A7, IB5, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
G	Metallic substance, water-reactive, self-heating, n.o.s.	4.3 (4.2)	UN3209	III	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	A7, IB8, IP4, T1, TP33	None	213	Not Accepted by FedEx Ground
	Methacrylaldehyde, stabilized	3 (6.1)	UN2396	II	FLAMMABLE LIQUID, POISON	45, IB2, T7, TP1, TP13	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Methacrylic acid, stabilized	8	UN2531	II	CORROSIVE	IB2, T7, TP1, TP18, TP30	154	202	
+	Methacrylonitrile, stabilized	3 (6.1)	UN3079	I	FLAMMABLE LIQUID, POISON	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Methallyl alcohol	3	UN2614	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>Methane and hydrogen, mixtures, see Hydrogen and methane, mixtures, etc</i>								NA
	Methane, compressed or Natural gas, compressed (with high methane content)	2.1	UN1971		FLAMMABLE GAS		306	302	
	Methane, refrigerated liquid (cryogenic liquid) or Natural gas, refrigerated liquid (cryogenic liquid), with high methane content	2.1	UN1972		FLAMMABLE GAS	T75, TP5	None	None	Not Accepted by FedEx Ground
	Methanesulfonyl chloride	6.1 (8)	UN3246	I	POISON, CORROSIVE	2, B9, B14, B32, B74, T20, TP2, TP12, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
+ I	Methanol	3 (6.1)	UN1230	II	FLAMMABLE LIQUID, POISON	IB2, T7, TP2	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
D	Methanol	3	UN1230	II	FLAMMABLE LIQUID	IB2, T7, TP2	150	202	
	<i>Methazoic acid</i>	Forbidden							Not Accepted by FedEx Ground
	4-Methoxy-4-methylpentan-2-one	3	UN2293	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	1-Methoxy-2-propanol	3	UN3092	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
+	Methoxymethyl isocyanate	3 (6.1)	UN2605	I	FLAMMABLE LIQUID, POISON	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Methyl acetate	3	UN1231	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Methyl acetylene and propadiene mixtures, stabilized	2.1	UN1060		FLAMMABLE GAS	N88, T50	306	304	
	Methyl acrylate, stabilized	3	UN1919	II	FLAMMABLE LIQUID	IB2, T4, TP1, TP13	150	202	
	<i>Methyl alcohol, see Methanol</i>								NA
	Methyl allyl chloride	3	UN2554	II	FLAMMABLE LIQUID	IB2, T4, TP1, TP13	150	202	
	<i>Methyl amyl ketone, see Amyl methyl ketone</i>								NA
	Methyl bromide	2.3	UN1062		POISON GAS	3, B14, N86, T50	None	193	Not Accepted by FedEx Ground
	<i>Methyl bromide and chloropicrin mixtures with more than 2 percent chloropicrin, see Chloropicrin and methyl bromide mixtures</i>								NA
	<i>Methyl bromide and chloropicrin mixtures with not more than 2 percent chloropicrin, see Methyl bromide</i>								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Methyl bromide and ethylene dibromide mixtures, liquid	6.1	UN1647	I	POISON	2, B9, B14, B32, B74, N65, T20, TP2, TP13, TP38, TP44	None	227	Not Accepted by FedEx Ground
	Methyl bromoacetate	6.1	UN2643	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2-Methylbutanal	3	UN3371	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	2-Methyl-1-butene	3	UN2459	I	FLAMMABLE LIQUID	T11, TP2	None	201	
	2-Methyl-2-butene	3	UN2460	II	FLAMMABLE LIQUID	IB2, IP8, T7, TP1	None	202	
	3-Methyl-1-butene	3	UN2561	I	FLAMMABLE LIQUID	T11, TP2	None	201	
	Methyl tert-butyl ether	3	UN2398	II	FLAMMABLE LIQUID	IB2, T7, TP1	150	202	
	Methyl butyrate	3	UN1237	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Methyl chloride or Refrigerant gas R 40	2.1	UN1063		FLAMMABLE GAS	N86, T50	306	304	
	Methyl chloride and chloropicrin mixtures, see Chloropicrin and methyl chloride mixtures								NA
	Methyl chloride and methylene chloride mixtures	2.1	UN1912		FLAMMABLE GAS	N86, T50	306	304	
	Methyl chloroacetate	6.1 (3)	UN2295	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Methyl chlorocarbonate, see Methyl chloroformate								NA
	Methyl chloroform, see 1,1,1-Trichloroethane								NA
	Methyl chloroformate	6.1 (3, 8)	UN1238	I	POISON, FLAMMABLE LIQUID, CORROSIVE	1, B9, B14, B30, B72, N34, T22, TP2, TP13, TP38, TP44	None	226	Not Accepted by FedEx Ground
	Methyl Chloromethyl Ether	6.1 (3)	UN1239	I	POISON, FLAMMABLE LIQUID	1, B9, B14, B30, B72, T22, TP2, TP38, TP44	None	226	Not Accepted by FedEx Ground
	Methyl 2-chloropropionate	3	UN2933	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Methyl dichloroacetate	6.1	UN2299	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Methyl ethyl ether, see Ethyl methyl ether								NA
	Methyl ethyl ketone, see Ethyl methyl ketone								NA
	Methyl ethyl ketone peroxide, in solution with more than 9 percent by mass active oxygen	Forbidden							Not Accepted by FedEx Ground
	2-Methyl-5-ethylpyridine	6.1	UN2300	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Methyl fluoride, or Refrigerant gas R 41	2.1	UN2454		FLAMMABLE GAS		306	304	
	Methyl formate	3	UN1243	I	FLAMMABLE LIQUID	T11, TP2	150	201	
	2-Methyl-2-heptanethiol	6.1 (3)	UN3023	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Methyl iodide	6.1	UN2644	I	POISON	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Methyl isobutyl carbinol	3	UN2053	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Methyl isobutyl ketone	3	UN1245	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Methyl isobutyl ketone peroxide, in solution with more than 9 percent by mass active oxygen	Forbidden							Not Accepted by FedEx Ground
	Methyl isocyanate	6.1 (3)	UN2480	I	POISON, FLAMMABLE LIQUID	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	Not Accepted by FedEx Ground
	Methyl isopropenyl ketone, stabilized	3	UN1246	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Methyl isothiocyanate	6.1 (3)	UN2477	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Methyl isovalerate	3	UN2400	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Methyl magnesium bromide, in ethyl ether	4.3 (3)	UN1928	I	DANGEROUS WHEN WET, FLAMMABLE LIQUID		None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Methyl mercaptan	2.3 (2.1)	UN1064		POISON GAS, FLAMMABLE GAS	3, B7, B9, B14, N89, T50	None	304	Not Accepted by FedEx Ground
	<i>Methyl mercaptopropionaldehyde, see 4-Thiapentanal</i>								NA
	Methyl methacrylate monomer, stabilized	3	UN1247	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>Methyl nitramine (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Methyl nitrate</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Methyl nitrite</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Methyl norbornene dicarboxylic anhydride, see Corrosive liquids, n.o.s.</i>								NA
	Methyl orthosilicate	6.1 (3)	UN2606	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
D	Methyl phosphonic dichloride	6.1 (8)	NA9206	I	POISON, CORROSIVE	2, B9, B14, B32, B74, N34, N43, T20, TP4, TP12, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	<i>Methyl phosphonoethioic dichloride, anhydrous, see Corrosive liquid, n.o.s.</i>								NA
D	Methyl phosphonous dichloride, pyrophoric liquid	6.1 (4.2)	NA2845	I	POISON, SPONTANEOUSLY COMBUSTIBLE	2, B9, B14, B16, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	<i>Methyl picric acid (heavy metal salts of)</i>	Forbidden							Not Accepted by FedEx Ground
	Methyl propionate	3	UN1248	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Methyl propyl ether	3	UN2612	II	FLAMMABLE LIQUID	IB2, IP8, T7, TP2	150	202	
	Methyl propyl ketone	3	UN1249	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>Methyl sulfate, see Dimethyl sulfate</i>								NA
	<i>Methyl sulfide, see Dimethyl sulfide</i>								NA
	Methyl trichloroacetate	6.1	UN2533	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Methyl trimethylol methane trinitrate</i>	Forbidden							Not Accepted by FedEx Ground
	Methyl vinyl ketone, stabilized	6.1 (3, 8)	UN1251	I	POISON, FLAMMABLE LIQUID, CORROSIVE	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	Not Accepted by FedEx Ground
	Methylal	3	UN1234	II	FLAMMABLE LIQUID	IB2, IP8, T7, TP2	None	202	
	Methylamine, anhydrous	2.1	UN1061		FLAMMABLE GAS	N87, T50	306	304	
	Methylamine, aqueous solution	3 (8)	UN1235	II	FLAMMABLE LIQUID, CORROSIVE	B1, IB2, T7, TP1	150	202	
	<i>Methylamine dinitramine and dry salts thereof</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Methylamine nitroform</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Methylamine perchlorate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Methylamyl acetate	3	UN1233	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	N-Methylaniline	6.1	UN2294	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	alpha-Methylbenzyl alcohol, liquid	6.1	UN2937	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	alpha-Methylbenzyl alcohol, solid	6.1	UN3438	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	3-Methylbutan-2-one	3	UN2397	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	N-Methylbutylamine	3 (8)	UN2945	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1	150	202	
	Methylchlorosilane	2.3 (2.1, 8)	UN2534		POISON GAS, FLAMMABLE GAS, CORROSIVE	2, B9, B14, N34	None	226	Not Accepted by FedEx Ground
	Methylcyclohexane	3	UN2296	II	FLAMMABLE LIQUID	B1, IB2, T4, TP1	150	202	
	Methylcyclohexanols, flammable	3	UN2617	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Methylcyclohexanone	3	UN2297	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Methylcyclopentane	3	UN2298	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
D	Methyldichloroarsine	6.1	NA1556	I	POISON	2, T20, TP4, TP12, TP13, TP38, TP45	None	192	Not Accepted by FedEx Ground
	Methyldichlorosilane	4.3 (8, 3)	UN1242	I	DANGEROUS WHEN WET, CORROSIVE, FLAMMABLE LIQUID	A2, A3, A7, B6, B77, N34, T10, TP2, TP7, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Methylene chloride, see Dichloromethane								NA
	Methylene glycol dinitrate	Forbidden							Not Accepted by FedEx Ground
	2-Methylfuran	3	UN2301	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	a-Methylglucoside tetranitrate	Forbidden							Not Accepted by FedEx Ground
	a-Methylglycerol trinitrate	Forbidden							Not Accepted by FedEx Ground
	5-Methylhexan-2-one	3	UN2302	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Methylhydrazine	6.1 (3, 8)	UN1244	I	POISON, FLAMMABLE LIQUID, CORROSIVE	1, B7, B9, B14, B30, B72, B77, N34, T22, TP2, TP13, TP38, TP44	None	226	Not Accepted by FedEx Ground
	4-Methylmorpholine or n-methylmorpholine	3 (8)	UN2535	II	FLAMMABLE LIQUID, CORROSIVE	B6, IB2, T7, TP1	150	202	
	Methylpentadienes	3	UN2461	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	2-Methylpentan-2-ol	3	UN2560	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Methylpentanes, see Hexanes								NA
	Methylphenyldichlorosilane	8	UN2437	II	CORROSIVE	IB2, T7, TP2, TP13	None	202	
	1-Methylpiperidine	3 (8)	UN2399	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1	150	202	
	Methyltetrahydrofuran	3	UN2536	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Methyltrichlorosilane	3 (8)	UN1250	I	FLAMMABLE LIQUID, CORROSIVE	A7, B6, B77, N34, T11, TP2, TP13	None	201	
	alpha-Methylvaleraldehyde	3	UN2367	II	FLAMMABLE LIQUID	B1, IB2, T4, TP1	150	202	
	Mine rescue equipment containing carbon dioxide, see Carbon dioxide								NA
	Mines with bursting charge	1.1F	UN0136	II	EXPLOSIVE 1.1F			62	Not Accepted by FedEx Ground
	Mines with bursting charge	1.1D	UN0137	II	EXPLOSIVE 1.1D			62	Not Accepted by FedEx Ground
	Mines with bursting charge	1.2D	UN0138	II	EXPLOSIVE 1.2D			62	Not Accepted by FedEx Ground
	Mines with bursting charge	1.2F	UN0294	II	EXPLOSIVE 1.2F			62	Not Accepted by FedEx Ground
	Mixed acid, see Nitrating acid, mixtures etc								NA
	Mobility aids, see Battery powered equipment or Battery powered vehicle'								NA
D	Model rocket motor	1.4C	NA0276	II	EXPLOSIVE 1.4C	51	None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
D	Model rocket motor	1.4S	NA0323	II	EXPLOSIVE 1.4S	51	None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Molybdenum pentachloride	8	UN2508	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	<i>Monochloroacetone (unstabilized)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Monochloroethylene, see Vinyl chloride, stabilized</i>								NA
	<i>Monoethanolamine, see Ethanolamine, solutions</i>								NA
	<i>Monoethylamine, see Ethylamine</i>								NA
	Morpholine	8 (3)	UN2054	I	CORROSIVE, FLAMMABLE LIQUID	A6, T10, TP2	None	201	
	<i>Morpholine, aqueous, mixture, see Corrosive liquids, n.o.s.</i>								NA
	Motor fuel anti-knock compounds see Motor fuel anti-knock mixtures								NA
+	Motor fuel anti-knock mixtures	6.1	UN1649	I	POISON	14, 151, B9, B90, T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Motor spirit, see Gasoline								NA
	<i>Muriatic acid, see Hydrochloric acid</i>								NA
	Musk xylene, see 5-tert-Butyl-2,4,6-trinitro-m-xylene								NA
	<i>Naphtha see Petroleum distillates n.o.s.</i>								NA
	Naphthalene, crude or Naphthalene, refined	4.1	UN1334	III	FLAMMABLE SOLID	A1, IB8, IP3, T1, TP33	151	213	
	<i>Naphthalene diozonide</i>	Forbidden							Not Accepted by FedEx Ground
	beta-Naphthylamine, solid	6.1	UN1650	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	beta-Naphthylamine solution	6.1	UN3411	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	beta-Naphthylamine solution	6.1	UN3411	III	POISON	IB2, T7, TP2	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	alpha-Naphthylamine	6.1	UN2077	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Naphthalene, molten	4.1	UN2304	III	FLAMMABLE SOLID	IB1, T1, TP3	151	213	Not Accepted by FedEx Ground
	<i>Naphthylamineperchlorate</i>	Forbidden							Not Accepted by FedEx Ground
	Naphthylthiourea	6.1	UN1651	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Naphthylurea	6.1	UN1652	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Natural gases (with high methane content), see Methane, etc. (UN 1971, UN 1972)</i>								NA
	<i>Neohexane, see Hexanes</i>								NA
	Neon, compressed	2.2	UN1065		NONFLAMMABLE GAS		306	302	
	Neon, refrigerated liquid (cryogenic liquid)	2.2	UN1913		NONFLAMMABLE GAS	T75, TP5	320	316	Accepted only when packaged under exception 49CFR 173.320
	<i>New explosive or explosive device, see §§173.51 and 173.56</i>								NA
	Nickel carbonyl	6.1 (3)	UN1259	I	POISON, FLAMMABLE LIQUID	1	None	198	Not Accepted by FedEx Ground
	Nickel cyanide	6.1	UN1653	II	POISON	IB8, IP2, IP4, N74, N75, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Nickel nitrate	5.1	UN2725	III	OXIDIZER	A1, IB8, IP3, T1, TP33	152	213	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Nickel nitrite	5.1	UN2726	III	OXIDIZER	A1, IB8, IP3, T1, TP33	152	213	
	<i>Nickel picrate</i>	Forbidden							Not Accepted by FedEx Ground
	Nicotine	6.1	UN1654	II	POISON	IB2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nicotine compounds, liquid, n.o.s. or Nicotine preparations, liquid, n.o.s.	6.1	UN3144	I	POISON	A4	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nicotine compounds, liquid, n.o.s. or Nicotine preparations, liquid, n.o.s.	6.1	UN3144	II	POISON	IB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nicotine compounds, liquid, n.o.s. or Nicotine preparations, liquid, n.o.s.	6.1	UN3144	III	POISON	IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nicotine compounds, solid, n.o.s. or Nicotine preparations, solid, n.o.s.	6.1	UN1655	III	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nicotine compounds, solid, n.o.s. or Nicotine preparations, solid, n.o.s.	6.1	UN1655	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nicotine compounds, solid, n.o.s. or Nicotine preparations, solid, n.o.s.	6.1	UN1655	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nicotine hydrochloride liquid or solution	6.1	UN1656	II	POISON	IB2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nicotine hydrochloride liquid or solution	6.1	UN1656	III	POISON	IB3	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nicotine hydrochloride, solid	6.1	UN3444	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nicotine salicylate	6.1	UN1657	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nicotine sulfate solution	6.1	UN1658	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nicotine sulfate solution	6.1	UN1658	III	POISON	IB3, T7, TP2	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nicotine sulphate, solid	6.1	UN3445	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nicotine tartrate	6.1	UN1659	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Nitrated paper (unstable)</i>	Forbidden							Not Accepted by FedEx Ground
	Nitrates, inorganic, aqueous solution, n.o.s.	5.1	UN3218	II	OXIDIZER	58, IB2, T4, TP1	152	202	
	Nitrates, inorganic, aqueous solution, n.o.s.	5.1	UN3218	III	OXIDIZER	58, IB2, T4, TP1	152	203	
	Nitrates, inorganic, n.o.s.	5.1	UN1477	II	OXIDIZER	IB8, IP2, IP4, T3, TP33	152	212	
	Nitrates, inorganic, n.o.s.	5.1	UN1477	III	OXIDIZER	IB8, IP3, T1, TP33	152	213	
	<i>Nitrates of diazonium compounds</i>	Forbidden							Not Accepted by FedEx Ground
	Nitrating acid mixtures, spent with more than 50 percent nitric acid	8 (5.1)	UN1826	I	CORROSIVE, OXIDIZER	A7, T10, TP2, TP12, TP13	None	158	
	Nitrating acid mixtures spent with not more than 50 percent nitric acid	8	UN1826	II	CORROSIVE	A7, B2, IB2, T8, TP2, TP12	None	158	
	Nitrating acid mixtures with more than 50 percent nitric acid	8 (5.1)	UN1796	I	CORROSIVE, OXIDIZER	A7, T10, TP2, TP12, TP13	None	158	
	Nitrating acid mixtures with not more than 50 percent nitric acid	8	UN1796	II	CORROSIVE	A7, B2, IB2, T8, TP2, TP12, TP13	None	158	
	Nitric acid other than red fuming, with at least 65 percent, but not more than 70 percent nitric acid	8 (5.1)	UN2031	I	CORROSIVE, OXIDIZER	A3, B47, B53, T10, TP2, TP12, TP13	None	158	
	Nitric acid, other than red fuming, with less than 65 percent nitric acid	8	UN2031	II	CORROSIVE	A6, B2, B47, B53, IB2, IP15, T8, TP2	None	158	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Nitric acid other than red fuming with not more than 20 percent nitric acid	8	UN2031	II	CORROSIVE	A6, B2, B47, B53, IB2, T8, TP2, TP12	None	158	
	Nitric acid other than red fuming, with not more than 70 percent nitric acid	8	UN2031	II	CORROSIVE	A6, B2, B47, B53, IB2, T8, TP2, TP12	None	158	
+	Nitric acid, red fuming	8 (5.1, 6.1)	UN2032	I	CORROSIVE, OXIDIZER, POISON	2, B9, B32, B74, T20, TP2, TP12, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Nitric oxide, compressed	2.3 (5.1, 8)	UN1660		POISON GAS, OXIDIZER, CORROSIVE	1, B37, B46, B50, B60, B77	None	337	Not Accepted by FedEx Ground
	Nitric oxide and dinitrogen tetroxide mixtures or Nitric oxide and nitrogen dioxide mixtures	2.3 (5.1, 8)	UN1975		POISON GAS, OXIDIZER, CORROSIVE	1, B7, B9, B14, B45, B46, B61, B66, B67, B77	None	337	Not Accepted by FedEx Ground
G	Nitriles, flammable, toxic, n.o.s.	3 (6.1)	UN3273	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Nitriles, flammable, toxic, n.o.s.	3 (6.1)	UN3273	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Nitriles, toxic, flammable, n.o.s.	6.1 (3)	UN3275	I	POISON, FLAMMABLE LIQUID	5, T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Nitriles, toxic, flammable, n.o.s.	6.1 (3)	UN3275	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Nitriles, toxic, liquid, n.o.s.	6.1	UN3276	I	POISON	5, T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Nitriles, toxic, liquid, n.o.s.	6.1	UN3276	II	POISON	IB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Nitriles, toxic, liquid, n.o.s.	6.1	UN3276	III	POISON	IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Nitriles, toxic, solid, n.o.s.	6.1	UN3439	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Nitriles, toxic, solid, n.o.s.	6.1	UN3439	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Nitriles, toxic, solid, n.o.s.	6.1	UN3439	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nitrites, inorganic, aqueous solution, n.o.s.	5.1	UN3219	II	OXIDIZER	IB1, T4, TP1	152	202	
	Nitrites, inorganic, aqueous solution, n.o.s.	5.1	UN3219	III	OXIDIZER	IB2, T4, TP1	152	203	
	Nitrites, inorganic, n.o.s.	5.1	UN2627	II	OXIDIZER	33, IB8, IP4, T3, TP33	152	212	
	3-Nitro-4-chlorobenzotrifluoride	6.1	UN2307	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	6-Nitro-4-diazotoluene-3-sulfonic acid (dry)	Forbidden							Not Accepted by FedEx Ground
	Nitro isobutane triol trinitrate	Forbidden							Not Accepted by FedEx Ground
	N-Nitro-N-methylglycolamide nitrate	Forbidden							Not Accepted by FedEx Ground
	2-Nitro-2-methylpropanol nitrate	Forbidden							Not Accepted by FedEx Ground
	Nitro urea	1.1D	UN0147	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	N-Nitroaniline	Forbidden							Not Accepted by FedEx Ground
+	Nitroanilines (o-; m-; p-;)	6.1	UN1661	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nitroanisole, liquid	6.1	UN2730	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nitroanisoles, solid	6.1	UN3458	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
+	Nitrobenzene	6.1	UN1662	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>m</i> -Nitrobenzene diazonium perchlorate	Forbidden							Not Accepted by FedEx Ground
	Nitrobenzenesulfonic acid	8	UN2305	II	CORROSIVE	B2, B4, IB8, IP2, IP4, T3, TP33	154	202	
	<i>Nitrobenzol</i> , see Nitrobenzene								NA
	5-Nitrobenzotriazol	1.1D	UN0385	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Nitrobenzotrifluorides, liquid	6.1	UN2306	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nitrobenzotrifluorides, solid	6.1	UN3431	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nitrobromobenzenes, liquid	6.1	UN2732	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nitrobromobenzenes, solid	6.1	UN3459	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nitrocellulose, dry or wetted with less than 25 percent water (or alcohol), by mass	1.1D	UN0340	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Nitrocellulose, with not more than 12.6 percent, by dry mass mixture with or without plasticizer, with or without pigment	4.1	UN2557	II	FLAMMABLE SOLID	44	151	212	
	Nitrocellulose membrane filters, with not more than 12.6% nitrogen, by dry mass	4.1	UN3270	II	FLAMMABLE SOLID	43, A1	151	212	
	Nitrocellulose, plasticized with not less than 18 percent plasticizing substance, by mass	1.3C	UN0343	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Nitrocellulose, solution, flammable with not more than 12.6 percent nitrogen, by mass, and not more than 55 percent nitrocellulose	3	UN2059	I	FLAMMABLE LIQUID	T11, TP1, TP8, TP27	None	201	
	Nitrocellulose, solution, flammable with not more than 12.6 percent nitrogen, by mass, and not more than 55 percent nitrocellulose	3	UN2059	II	FLAMMABLE LIQUID	IB2, T4, TP1, TP8	150	202	
	Nitrocellulose, solution, flammable with not more than 12.6 percent nitrogen, by mass, and not more than 55 percent nitrocellulose	3	UN2059	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Nitrocellulose, unmodified or plasticized with less than 18 percent plasticizing substance, by mass	1.1D	UN0341	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Nitrocellulose, wetted with not less than 25 percent alcohol, by mass	1.3C	UN0342	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Nitrocellulose with alcohol with not less than 25 percent alcohol by mass, and with not more than 12.6 percent nitrogen, by dry mass	4.1	UN2556	II	FLAMMABLE SOLID		151	212	
	Nitrocellulose with water with not less than 25 percent water by mass	4.1	UN2555	II	FLAMMABLE SOLID		151	212	
	<i>Nitrochlorobenzene</i> , see Chloronitrobenzenes etc								NA
	Nitroresols, liquid	6.1	UN3434	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nitroresols, solid	6.1	UN2446	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nitroethane	3	UN2842	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>Nitroethyl nitrate</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Nitroethylene polymer</i>	Forbidden							Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Nitrogen, compressed	2.2	UN1066		NONFLAMMABLE GAS		306, 307	302	
	<i>Nitrogen dioxide, see Dinitrogen tetroxide</i>								NA
	<i>Nitrogen fertilizer solution, see Fertilizer ammoniating solution etc</i>								NA
	<i>Nitrogen peroxide, see Dinitrogen tetroxide</i>								NA
	Nitrogen, refrigerated liquid <i>cryogenic liquid</i>	2.2	UN1977		NONFLAMMABLE GAS	T75, TP5	320	316	Accepted only when packaged under exception 49CFR 173.320
	<i>Nitrogen tetroxide and nitric oxide mixtures, see Nitric oxide and nitrogen tetroxide mixtures</i>								NA
	<i>Nitrogen tetroxide, see Dinitrogen tetroxide</i>								NA
	<i>Nitrogen trichloride</i>	Forbidden							Not Accepted by FedEx Ground
	Nitrogen trifluoride	2.2 (5.1)	UN2451		NONFLAMMABLE GAS, OXIDIZER		None	302	
	<i>Nitrogen triiodide</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Nitrogen triiodide monoamine</i>	Forbidden							Not Accepted by FedEx Ground
	Nitrogen trioxide	2.3 (5.1, 8)	UN2421		POISON GAS, OXIDIZER, CORROSIVE	1	None	336	Not Accepted by FedEx Ground
	Nitroglycerin, desensitized <i>with not less than 40 percent non-volatile water insoluble phlegmatizer, by mass</i>	1.1D (6.1)	UN0143	II	EXPLOSIVE 1.1D, POISON	125	None	62	Not Accepted by FedEx Ground
	<i>Nitroglycerin, liquid, not desensitized</i>	Forbidden							Not Accepted by FedEx Ground
	Nitroglycerin mixture, desensitized, liquid, flammable, n.o.s. <i>with not more than 30 percent nitroglycerin, by mass</i>	3	UN3343		FLAMMABLE LIQUID	129	None	214	Not Accepted by FedEx Ground
	Nitroglycerin mixture, desensitized, liquid, n.o.s. <i>with not more than 30% nitroglycerin, by mass</i>	3	UN3357	II	FLAMMABLE LIQUID	142	None	202	Not Accepted by FedEx Ground
	Nitroglycerin mixture, desensitized, solid, n.o.s. <i>with more than 2 percent but not more than 10 percent nitroglycerin, by mass</i>	4.1	UN3319	II	FLAMMABLE SOLID	118	None	None	Not Accepted by FedEx Ground
	Nitroglycerin, solution in alcohol, with more than 1 percent but not more than 5 percent nitroglycerin	3	UN3064	II	FLAMMABLE LIQUID	N8	None	202	
	Nitroglycerin, solution in alcohol, with more than 1 percent but not more than 10 percent nitroglycerin	1.1D	UN0144	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Nitroglycerin solution in alcohol with not more than 1 percent nitroglycerin	3	UN1204	II	FLAMMABLE LIQUID	IB2, N34	150	202	
	<i>Nitroguanidine nitrate</i>	Forbidden							Not Accepted by FedEx Ground
	Nitroguanidine <i>or Picrite, dry or wetted with less than 20 percent water, by mass</i>	1.1D	UN0282	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Nitroguanidine, wetted or Picrite, wetted with not less than 20 percent water, by mass	4.1	UN1336	I	FLAMMABLE SOLID	23, A8, A19, A20, N41	None	211	
	<i>1-Nitrohydantoin</i>	Forbidden							Not Accepted by FedEx Ground
	Nitrohydrochloric acid	8	UN1798	I	CORROSIVE	A3, B10, N41, T10, TP2, TP12, TP13	None	201	
	<i>Nitromannite (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Nitromannite, wetted, see Mannitol hexanitrate, etc								NA
	Nitromethane	3	UN1261	II	FLAMMABLE LIQUID		150	202	
	<i>Nitromuriatic acid, see Nitrohydrochloric acid</i>								NA
	Nitronaphthalene	4.1	UN2538	III	FLAMMABLE SOLID	A1, IB8, IP3, T1, TP33	151	213	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1 Symbols	2 Hazardous Materials Description and Proper Shipping Name	3 Hazard Class or Division	4 Identification Numbers	5 PG	6 Label Codes	7 Special Provisions	8A Section 173.*** Exceptions	8B Section 173.*** NonBulk	9 FedEx Ground Restrictions
+	Nitrophenols (o-; m-; p-)	6.1	UN1663	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>m-Nitrophenyldinitro methane</i>	Forbidden							Not Accepted by FedEx Ground
	4-Nitrophenylhydrazine, with not less than 30 percent water, by mass	4.1	UN3376	I	FLAMMABLE SOLID	162, A8, A19, A20, N41	None	211	
	Nitropropanes	3	UN2608	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	Not to exceed 10 lb. (4.45kg) per package- see RQ Table
	p-Nitrosodimethylaniline	4.2	UN1369	II	SPONTANEOUSLY COMBUSTIBLE	A19, A20, IB6, IP2, N34, T3, TP33	None	212	Not Accepted by FedEx Ground
	Nitrostarch, dry or wetted with less than 20 percent water, by mass	1.1D	UN0146	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Nitrostarch, wetted with not less than 20 percent water, by mass	4.1	UN1337	I	FLAMMABLE SOLID	23, A8, A19, A20, N41	None	211	
	<i>Nitrosugars (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Nitrosyl chloride	2.3 (8)	UN1069		POISON GAS, CORROSIVE	3, B14	None	304	Not Accepted by FedEx Ground
	Nitrosylsulfuric acid, liquid	8	UN2308	II	CORROSIVE	A3, A6, A7, B2, IB2, N34, T8, TP2, TP12	154	202	
	Nitrosylsulphuric acid, solid	8	UN3456	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Nitrotoluenes, liquid	6.1	UN1664	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nitrotoluenes, solid	6.1	UN3446	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nitrotoluidines (mono)	6.1	UN2660	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nitrotriazolone or NTO	1.1D	UN0490	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	<i>Nitrous oxide and carbon dioxide mixtures, see Carbon dioxide and nitrous oxide mixtures</i>								NA
	Nitrous oxide	2.2 (5.1)	UN1070		NONFLAMMABLE GAS, OXIDIZER	A14	306	304	
	Nitrous oxide, refrigerated liquid	2.2 (5.1)	UN2201		NONFLAMMABLE GAS, OXIDIZER	B6, T75, TP5, TP22	None	304	
	Nitroxylenes, liquid	6.1	UN1665	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Nitroxylenes, solid	6.1	UN3447	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Nitroxylol, see Nitroxylenes</i>								NA
	Nonanes	3	UN1920	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>Non-flammable gas, n.o.s., see Compressed gas, etc. or Liquefied gas, etc</i>								NA
	<i>Nonliquefied gases, see Compressed gases, etc</i>								NA
	<i>Nonliquefied hydrocarbon gas, see Hydrocarbon gas mixture, compressed, n.o.s.</i>								NA
	Nonyltrichlorosilane	8	UN1799	II	CORROSIVE	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	
	<i>Nordhausen acid, see Sulfuric acid, fuming etc</i>								NA
	2,5-Norbormadiene, stabilized, see Bicyclo [2,2,1] hepta-2,5-diene, stabilized								NA
	Octadecyltrichlorosilane	8	UN1800	II	CORROSIVE	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Octadiene	3	UN2309	II	FLAMMABLE LIQUID	B1, IB2, T4, TP1	150	202	
	<i>1,7-Octadine-3,5-diyne-1,8-dimethoxy-9-octadecynoic acid</i>	Forbidden							Not Accepted by FedEx Ground
	Octafluorobut-2-ene or Refrigerant gas R 1318	2.2	UN2422		NONFLAMMABLE GAS		None	304	
	Octafluorocyclobutane, or Refrigerant gas RC 318	2.2	UN1976		NONFLAMMABLE GAS	T50	None	304	
	Octafluoropropane or Refrigerant gas R 218	2.2	UN2424		NONFLAMMABLE GAS	T50	None	304	
	Octanes	3	UN1262	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Octogen, etc. see Cyclotetramethylene tetranitramine, etc.								NA
	Octolite or Octol, dry or wetted with less than 15 percent water, by mass	1.1D	UN0266	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Octonal	1.1D	UN0496		EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Octyl aldehydes	3	UN1191	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Octyltrichlorosilane	8	UN1801	II	CORROSIVE	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	
	Oil gas, compressed	2.3 (2.1)	UN1071		POISON GAS, FLAMMABLE GAS	6	None	304	Not Accepted by FedEx Ground
	<i>Oleum, see Sulfuric acid, fuming</i>								NA
	<i>Organic peroxide type A, liquid or solid</i>	Forbidden							Not Accepted by FedEx Ground
G	Organic peroxide type B, liquid	5.2 (1)	UN3101	II	ORGANIC PEROXIDE, EXPLOSIVE	53	152	225	Not Accepted by FedEx Ground
G	Organic peroxide type B, liquid, temperature controlled	5.2 (1)	UN3111	II	ORGANIC PEROXIDE, EXPLOSIVE	53	None	225	Not Accepted by FedEx Ground
G	Organic peroxide type B, solid	5.2 (1)	UN3102	II	ORGANIC PEROXIDE, EXPLOSIVE	53	152	225	Not Accepted by FedEx Ground
G	Organic peroxide type B, solid, temperature controlled	5.2 (1)	UN3112	II	ORGANIC PEROXIDE, EXPLOSIVE	53	None	225	Not Accepted by FedEx Ground
G	Organic peroxide type C, liquid	5.2	UN3103	II	ORGANIC PEROXIDE		152	225	
G	Organic peroxide type C, liquid, temperature controlled	5.2	UN3113	II	ORGANIC PEROXIDE		None	225	Not Accepted by FedEx Ground
G	Organic peroxide type C, solid	5.2	UN3104	II	ORGANIC PEROXIDE		152	225	
G	Organic peroxide type C, solid, temperature controlled	5.2	UN3114	II	ORGANIC PEROXIDE		None	225	Not Accepted by FedEx Ground
G	Organic peroxide type D, liquid	5.2	UN3105	II	ORGANIC PEROXIDE		152	225	
G	Organic peroxide type D, liquid, temperature controlled	5.2	UN3115	II	ORGANIC PEROXIDE		None	225	Not Accepted by FedEx Ground
G	Organic peroxide type D, solid	5.2	UN3106	II	ORGANIC PEROXIDE		152	225	
G	Organic peroxide type D, solid, temperature controlled	5.2	UN3116	II	ORGANIC PEROXIDE		None	225	Not Accepted by FedEx Ground
G	Organic peroxide type E, liquid	5.2	UN3107	II	ORGANIC PEROXIDE		152	225	
G	Organic peroxide type E, liquid, temperature controlled	5.2	UN3117	II	ORGANIC PEROXIDE		None	225	Not Accepted by FedEx Ground
G	Organic peroxide type E, solid	5.2	UN3108	II	ORGANIC PEROXIDE		152	225	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
G	Organic peroxide type E, solid, temperature controlled	5.2	UN3118	II	ORGANIC PEROXIDE		None	225	Not Accepted by FedEx Ground
G	Organic peroxide type F, liquid	5.2	UN3109	II	ORGANIC PEROXIDE	IP5	152	225	
G	Organic peroxide type F, liquid, temperature controlled	5.2	UN3119	II	ORGANIC PEROXIDE	IP5	None	225	Not Accepted by FedEx Ground
G	Organic peroxide type F, solid	5.2	UN3110	II	ORGANIC PEROXIDE	TP33	152	225	
G	Organic peroxide type F, solid, temperature controlled	5.2	UN3120	II	ORGANIC PEROXIDE	TP33	None	225	Not Accepted by FedEx Ground
D	Organic phosphate, mixed with compressed gas or Organic phosphate compound, mixed with compressed gas or Organic phosphorus compound, mixed with compressed gas	2.3	NA1955		POISON GAS	3	None	334	Not Accepted by FedEx Ground
	Organic pigments, self-heating	4.2	UN3313	II	SPONTANEOUSLY COMBUSTIBLE	IB8, IP2, IP4, T3, TP33	None	212	Not Accepted by FedEx Ground
	Organic pigments, self-heating	4.2	UN3313	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
G	Organoarsenic compound, liquid, n.o.s.	6.1	UN3280	I	POISON	5, T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organoarsenic compound, liquid, n.o.s.	6.1	UN3280	II	POISON	IB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organoarsenic compound, liquid, n.o.s.	6.1	UN3280	III	POISON	IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organoarsenic compound, solid, n.o.s.	6.1	UN3465	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organoarsenic compound, solid, n.o.s.	6.1	UN3465	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organoarsenic compound, solid, n.o.s.	6.1	UN3465	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organochlorine pesticides liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2762	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organochlorine pesticides liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2762	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organochlorine pesticides, liquid, toxic	6.1	UN2996	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organochlorine pesticides, liquid, toxic	6.1	UN2996	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organochlorine pesticides, liquid, toxic	6.1	UN2996	III	POISON	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organochlorine pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN2995	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organochlorine pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN2995	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organochlorine pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN2995	III	POISON, FLAMMABLE LIQUID	B1, IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organochlorine pesticides, solid, toxic	6.1	UN2761	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organochlorine pesticides, solid, toxic	6.1	UN2761	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Organochlorine pesticides, solid, toxic	6.1	UN2761	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic compound, toxic, liquid, n.o.s.	6.1	UN3282	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic compound, toxic, liquid, n.o.s.	6.1	UN3282	II	POISON	IB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic compound, toxic, liquid, n.o.s.	6.1	UN3282	III	POISON	IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic compound, toxic, solid, n.o.s.	6.1	UN3467	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic compound, toxic, solid, n.o.s.	6.1	UN3467	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic compound, toxic, solid, n.o.s.	6.1	UN3467	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic substance, liquid, pyrophoric	4.2	UN3392	I	SPONTANEOUSLY COMBUSTIBLE	B11, T21, TP2, TP7	None	181	Not Accepted by FedEx Ground
G	Organometallic substance, liquid, pyrophoric, water-reactive	4.2 (4.3)	UN3394	I	SPONTANEOUSLY COMBUSTIBLE, DANGEROUS WHEN WET	B11, T21, TP2, TP7	None	181	Not Accepted by FedEx Ground
G	Organometallic substance, liquid, water-reactive	4.3	UN3398	I	DANGEROUS WHEN WET	T13, TP2, TP7	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic substance, liquid, water-reactive	4.3	UN3398	II	DANGEROUS WHEN WET	IB1, T7, TP2, TP7	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic substance, liquid, water-reactive	4.3	UN3398	III	DANGEROUS WHEN WET	IB2, T7, TP2, TP7	None	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic substance, liquid, water-reactive, flammable	4.3 (3)	UN3399	I	DANGEROUS WHEN WET, FLAMMABLE LIQUID	T13, TP2, TP7	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic substance, liquid, water-reactive, flammable	4.3 (3)	UN3399	II	DANGEROUS WHEN WET, FLAMMABLE LIQUID	IB1, IP2, T7, TP2, TP7	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic substance, liquid, water-reactive, flammable	4.3 (3)	UN3399	III	DANGEROUS WHEN WET, FLAMMABLE LIQUID	IB2, IP4, T7, TP2, TP7	None	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic substance, solid, pyrophoric	4.2	UN3391	I	SPONTANEOUSLY COMBUSTIBLE	T21, TP7, TP33	None	187	Not Accepted by FedEx Ground
G	Organometallic substance, solid, pyrophoric, water-reactive	4.2 (4.3)	UN3393	I	SPONTANEOUSLY COMBUSTIBLE, DANGEROUS WHEN WET	B11, T21, TP7, TP33	None	187	Not Accepted by FedEx Ground
G	Organometallic substance, solid, self-heating	4.2	UN3400	II	SPONTANEOUSLY COMBUSTIBLE	IB6, T3, TP33	None	212	Not Accepted by FedEx Ground
G	Organometallic substance, solid, self-heating	4.2	UN3400	III	SPONTANEOUSLY COMBUSTIBLE	IB8, T1, TP33	None	203	Not Accepted by FedEx Ground
G	Organometallic substance, solid, water-reactive	4.3	UN3395	I	DANGEROUS WHEN WET	N40, T9, TP7, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic substance, solid, water-reactive, flammable	4.3 (4.1)	UN3396	I	DANGEROUS WHEN WET, FLAMMABLE SOLID	N40, T9, TP7, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic substance, solid, water-reactive, flammable	4.3 (4.1)	UN3396	II	DANGEROUS WHEN WET, FLAMMABLE SOLID	IB4, T3, TP33	151	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organometallic substance, solid, water-reactive, flammable	4.3 (4.1)	UN3396	III	DANGEROUS WHEN WET, FLAMMABLE SOLID	IB6, T1, TP33	151	213	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
G	Organometallic substance, solid, water-reactive, self-heating	4.3 (4.2)	UN3397	I	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	N40, T9, TP7, TP33	None	211	Not Accepted by FedEx Ground
G	Organometallic substance, solid, water-reactive, self-heating	4.3 (4.2)	UN3397	II	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	IB4, T3, TP33	None	212	Not Accepted by FedEx Ground
G	Organometallic substance, solid, water-reactive, self-heating	4.3 (4.2)	UN3397	III	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	IB6, T1, TP33	None	213	Not Accepted by FedEx Ground
	Organophosphorus compound, toxic, flammable, n.o.s.	6.1 (3)	UN3279	I	POISON, FLAMMABLE LIQUID	5, T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organophosphorus compound, toxic, flammable, n.o.s.	6.1 (3)	UN3279	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organophosphorus compound, toxic, liquid, n.o.s.	6.1	UN3278	I	POISON	5, T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organophosphorus compound, toxic, liquid, n.o.s.	6.1	UN3278	II	POISON	IB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organophosphorus compound, toxic, liquid, n.o.s.	6.1	UN3278	III	POISON	IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organophosphorus compound, toxic, solid, n.o.s.	6.1	UN3464	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organophosphorus compound, toxic, solid, n.o.s.	6.1	UN3464	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Organophosphorus compound, toxic, solid, n.o.s.	6.1	UN3464	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organophosphorus pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2784	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organophosphorus pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2784	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organophosphorus pesticides, liquid, toxic	6.1	UN3018	I	POISON	N76, T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organophosphorus pesticides, liquid, toxic	6.1	UN3018	II	POISON	IB2, N76, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organophosphorus pesticides, liquid, toxic	6.1	UN3018	III	POISON	IB3, N76, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organophosphorus pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3017	I	POISON, FLAMMABLE LIQUID	N76, T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organophosphorus pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3017	II	POISON, FLAMMABLE LIQUID	IB2, N76, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organophosphorus pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3017	III	POISON, FLAMMABLE LIQUID	IB1, IB3, N76, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organophosphorus pesticides, solid, toxic	6.1	UN2783	I	POISON	IB7, IP1, N77, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organophosphorus pesticides, solid, toxic	6.1	UN2783	II	POISON	IB8, IP2, IP4, N77, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organophosphorus pesticides, solid, toxic	6.1	UN2783	III	POISON	IB8, IP3, N77, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin compounds, liquid, n.o.s.	6.1	UN2788	I	POISON	A3, N33, N34, T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Organotin compounds, liquid, n.o.s.	6.1	UN2788	I	POISON	A3, IB2, N33, N34, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin compounds, liquid, n.o.s.	6.1	UN2788	I	POISON	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin compounds, solid, n.o.s.	6.1	UN3146	I	POISON	A5, IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin compounds, solid, n.o.s.	6.1	UN3146	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin compounds, solid, n.o.s.	6.1	UN3146	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2787	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2787	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin pesticides, liquid, toxic	6.1	UN3020	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin pesticides, liquid, toxic	6.1	UN3020	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin pesticides, liquid, toxic	6.1	UN3020	III	POISON	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3019	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3019	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3019	III	POISON, FLAMMABLE LIQUID	B1, IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin pesticides, solid, toxic	6.1	UN2786	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin pesticides, solid, toxic	6.1	UN2786	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Organotin pesticides, solid, toxic	6.1	UN2786	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Orthonitroaniline, see Nitroanilines etc</i>								NA
	Osmium tetroxide	6.1	UN2471	I	POISON	A8, IB7, IP1, N33, N34, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
D G	Other regulated substances, liquid, n.o.s.	9	NA3082	III	CLASS 9	IB3, T2, TP1	155	203	
D G	Other regulated substances, solid, n.o.s.	9	NA3077	III	CLASS 9	B54, IB8, IP2, T1, TP33	155	213	
G	Oxidizing liquid, corrosive, n.o.s.	5.1 (8)	UN3098	I	OXIDIZER, CORROSIVE	A6	None	201	
G	Oxidizing liquid, corrosive, n.o.s.	5.1 (8)	UN3098	II	OXIDIZER, CORROSIVE	IB1	None	202	
G	Oxidizing liquid, corrosive, n.o.s.	5.1 (8)	UN3098	III	OXIDIZER, CORROSIVE	IB2	152	203	
G	Oxidizing liquid, n.o.s.	5.1	UN3139	I	OXIDIZER	127, A2, A6	None	201	
G	Oxidizing liquid, n.o.s.	5.1	UN3139	II	OXIDIZER	127, A2, IB2	152	202	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
G	Oxidizing liquid, n.o.s.	5.1	UN3139	III	OXIDIZER	127, A2, IB2	152	203	
G	Oxidizing liquid, toxic, n.o.s.	5.1 (6.1)	UN3099	I	OXIDIZER, POISON	A6	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Oxidizing liquid, toxic, n.o.s.	5.1 (6.1)	UN3099	II	OXIDIZER, POISON	IB1	152	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Oxidizing liquid, toxic, n.o.s.	5.1 (6.1)	UN3099	III	OXIDIZER, POISON	IB2	152	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Oxidizing solid, corrosive, n.o.s.	5.1 (8)	UN3085	I	OXIDIZER, CORROSIVE		None	211	
G	Oxidizing solid, corrosive, n.o.s.	5.1 (8)	UN3085	II	OXIDIZER, CORROSIVE	IB6, IP2, T3, TP33	None	212	
G	Oxidizing solid, corrosive, n.o.s.	5.1 (8)	UN3085	III	OXIDIZER, CORROSIVE	IB8, IP3, T1, TP33	152	213	
G	Oxidizing solid, flammable, n.o.s.	5.1 (4.1)	UN3137	I	OXIDIZER, FLAMMABLE SOLID		None	214	Not Accepted by FedEx Ground
G	Oxidizing solid, n.o.s.	5.1	UN1479	I	OXIDIZER	IB5, IP1	None	211	
G	Oxidizing solid, n.o.s.	5.1	UN1479	II	OXIDIZER	IB8, IP2, IP4, T3, TP33	152	212	
G	Oxidizing solid, n.o.s.	5.1	UN1479	III	OXIDIZER	IB8, IP3, T1, TP33	152	213	
G	Oxidizing solid, self-heating, n.o.s.	5.1 (4.2)	UN3100	I	OXIDIZER, SPONTANEOUSLY COMBUSTIBLE		None	214	Not Accepted by FedEx Ground
G	Oxidizing solid, self-heating, n.o.s.	5.1 (4.2)	UN3100	II	OXIDIZER, SPONTANEOUSLY COMBUSTIBLE		None	214	Not Accepted by FedEx Ground
G	Oxidizing solid, toxic, n.o.s.	5.1 (6.1)	UN3087	I	OXIDIZER, POISON		None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Oxidizing solid, toxic, n.o.s.	5.1 (6.1)	UN3087	II	OXIDIZER, POISON	IB6, IP2, T3, TP33	152	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Oxidizing solid, toxic, n.o.s.	5.1 (6.1)	UN3087	III	OXIDIZER, POISON	IB8, IP3, T1, TP33	152	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Oxidizing solid, water-reactive, n.o.s.	5.1 (4.3)	UN3121		OXIDIZER, DANGEROUS WHEN WET		None	214	Not Accepted by FedEx Ground
	<i>Oxygen and carbon dioxide mixtures, see Carbon dioxide and oxygen mixtures</i>								NA
	Oxygen, compressed	2.2 (5.1)	UN1072		NONFLAMMABLE GAS, OXIDIZER	A14	306	302	
	Oxygen difluoride, compressed	2.3 (5.1, 8)	UN2190		POISON GAS, OXIDIZER, CORROSIVE	1, N86	None	304	Not Accepted by FedEx Ground
	Oxygen generator, chemical (including when contained in associated equipment, e.g., passenger service units (PSUs), portable breathing equipment (PBE), etc).	5.1	UN3356	II	OXIDIZER		None	168	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
+	Oxygen generator, chemical, spent <i>Oxygen, mixtures with rare gases, see Rare gases and oxygen mixtures</i>	9	NA3356	III	CLASS 9	61	None	213	NA
	Oxygen, refrigerated liquid (cryogenic liquid)	2.2 (5.1)	UN1073		NONFLAMMABLE GAS, OXIDIZER	T75, TP5, TP22	320	316	
	Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base	3	UN1263	I	FLAMMABLE LIQUID	T11, TP1, TP8, TP27	150	201	See FedEx Ground HazMat Shipping Guide Paint Section
	Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base	3	UN1263	II	FLAMMABLE LIQUID	149, B52, IB2, T4, TP1, TP8, TP28	150	173	See FedEx Ground HazMat Shipping Guide Paint Section
	Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base	3	UN1263	III	FLAMMABLE LIQUID	B1, B52, IB3, T2, TP1, TP29	150	173	See FedEx Ground HazMat Shipping Guide Paint Section
	Paint or Paint related material	8	UN3066	II	CORROSIVE	B2, IB2, T7, TP2, TP28	154	173	See FedEx Ground HazMat Shipping Guide Paint Section
	Paint or Paint related material	8	UN3066	III	CORROSIVE	B52, IB3, T4, TP1, TP29	154	173	See FedEx Ground HazMat Shipping Guide Paint Section
	Paint related material including paint thinning, drying, removing, or reducing compound	3	UN1263	I	FLAMMABLE LIQUID	T11, TP1, TP8, TP27	150	201	See FedEx Ground HazMat Shipping Guide Paint Section
	Paint related material including paint thinning, drying, removing, or reducing compound	3	UN1263	II	FLAMMABLE LIQUID	149, B52, IB2, T4, TP1, TP8, TP28	150	173	See FedEx Ground HazMat Shipping Guide Paint Section
	Paint related material including paint thinning, drying, removing, or reducing compound	3	UN1263	III	FLAMMABLE LIQUID	B1, B52, IB3, T2, TP1, TP29	150	173	See FedEx Ground HazMat Shipping Guide Paint Section
	Paint, corrosive, flammable (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)	8 (3)	UN3470	II	CORROSIVE, FLAMMABLE LIQUID	IB2, T7, TP2, TP8, TP28	154	202	See FedEx Ground HazMat Shipping Guide Paint Section
	Paint related material corrosive, flammable (including paint thinning or reducing compound)	8 (3)	UN3470	II	CORROSIVE, FLAMMABLE LIQUID	IB2, T7, TP2, TP8, TP28	154	202	See FedEx Ground HazMat Shipping Guide Paint Section
	Paint, flammable, corrosive (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)	3 (8)	UN3469	I	FLAMMABLE LIQUID, CORROSIVE	T11, TP2, TP27	None	201	See FedEx Ground HazMat Shipping Guide Paint Section
	Paint, flammable, corrosive (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)	3 (8)	UN3469	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP2, TP8, TP28	150	202	See FedEx Ground HazMat Shipping Guide Paint Section
	Paint, flammable, corrosive (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)	3 (8)	UN3469	III	FLAMMABLE LIQUID, CORROSIVE	IB3, T4, TP1, TP29	150	203	See FedEx Ground HazMat Shipping Guide Paint Section
	Paper, unsaturated oil treated incompletely dried (including carbon paper)	4.2	UN1379	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3	None	213	Not Accepted by FedEx Ground
	Paraformaldehyde	4.1	UN2213	III	FLAMMABLE SOLID	A1, IB8, IP3, T1, TP33	151	213	
	Paraldehyde	3	UN1264	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>Paranitroaniline, solid, see Nitroanilines etc</i>								NA
D	Parathion and compressed gas mixture <i>Paris green, solid, see Copper acetoarsenite</i>	2.3	NA1967		POISON GAS	3	None	334	Not Accepted by FedEx Ground
A W	PCB, see Polychlorinated biphenyls								NA
+	Pentaborane	4.2 (6.1)	UN1380	I	SPONTANEOUSLY COMBUSTIBLE, POISON	1	None	205	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Pentachloroethane	6.1	UN1669	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Pentachlorophenol	6.1	UN3155	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	<i>Pentaerythrite tetranitrate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Pentaerythrite tetranitrate mixture, desensitized, solid, n.o.s. or Pentaerythritol tetranitrate mixture, desensitized, solid, n.o.s. or PETN mixture, desensitized, solid, n.o.s., with more than 10 percent but not more than 20 percent PETN, by mass	4.1	UN3344	II	FLAMMABLE SOLID	118, N85	None	214	Not Accepted by FedEx Ground
	Pentaerythrite tetranitrate or Pentaerythritol tetranitrate or PETN, with not less than 7 percent wax by mass	1.1D	UN0411	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Pentaerythrite tetranitrate, wetted or Pentaerythritol tetranitrate, wetted, or PETN, wetted with not less than 25 percent water, by mass, or Pentaerythrite tetranitrate, or Pentaerythritol tetranitrate or PETN, desensitized with not less than 15 percent	1.1D	UN0150	II	EXPLOSIVE 1.1D	121	None	62	Not Accepted by FedEx Ground
	Pentaerythritol tetranitrate, see Pentaerythrite tetranitrate, etc								NA
	Pentafluoroethane or Refrigerant gas R 125	2.2	UN3220		NONFLAMMABLE GAS	T50	306	304	
	Pentamethylheptane	3	UN2286	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Pentane-2,4-dione	3 (6.1)	UN2310	III	FLAMMABLE LIQUID, POISON	B1, IB3, T4, TP1	150	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Pentanes	3	UN1265	I	FLAMMABLE LIQUID	T11, TP2	150	201	
	Pentanes	3	UN1265	II	FLAMMABLE LIQUID	IB2, IP8, T4, TP1	150	202	
	<i>Pentanitroaniline (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Pentanol	3	UN1105	II	FLAMMABLE LIQUID	IB2, T4, TP1, TP29	150	202	
	Pentanol	3	UN1105	III	FLAMMABLE LIQUID	B1, B3, IB3, T2, TP1	150	203	
	1-Pentene (n-amylene)	3	UN1108	I	FLAMMABLE LIQUID	T11, TP2	150	201	
	1-Pentol	8	UN2705	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	Pentolite, dry or wetted with less than 15 percent water, by mass	1.1D	UN0151	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Pepper spray, see Aerosols, etc. or Self-defense spray, non-pressurized								NA
	Perchlorates, inorganic, aqueous solution, n.o.s.	5.1	UN3211	II	OXIDIZER	IB2, T4, TP1	152	202	
	Perchlorates, inorganic, aqueous solution, n.o.s.	5.1	UN3211	III	OXIDIZER	IB2, T4, TP1	152	202	
	Perchlorates, inorganic, n.o.s.	5.1	UN1481	II	OXIDIZER	IB6, IP2, T3, TP33	152	212	
	Perchlorates, inorganic, n.o.s.	5.1	UN1481	III	OXIDIZER	IB8, IP3, T1, TP33	152	213	
	<i>Perchloric acid, with more than 72 percent acid by mass</i>	Forbidden							Not Accepted by FedEx Ground
	Perchloric acid with more than 50 percent but not more than 72 percent acid, by mass	5.1 (8)	UN1873	I	OXIDIZER, CORROSIVE	A2, A3, N41, T10, TP1, TP12	None	201	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1 Symbols	2 Hazardous Materials Description and Proper Shipping Name	3 Hazard Class or Division	4 Identification Numbers	5 PG	6 Label Codes	7 Special Provisions	8A Section 173.*** Exceptions	8B Section 173.*** NonBulk	9 FedEx Ground Restrictions
	Perchloric acid with not more than 50 percent acid by mass	8 (5.1)	UN1802	II	CORROSIVE, OXIDIZER	IB2, N41, T7, TP2	None	202	
	<i>Perchloroethylene, see Tetrachloroethylene</i>								NA
	Perchloromethyl mercaptan	6.1	UN1670	I	POISON	2, B9, B14, B32, B74, N34, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Perchloryl fluoride	2.3 (5.1)	UN3083		POISON GAS, OXIDIZER	2, B9, B14	None	302	Not Accepted by FedEx Ground
	<i>Perfusion caps, see Primers, cap type</i>								NA
	<i>Perfluoro-2-butene, see Octafluorobut-2-ene</i>								NA
	Perfluoro(ethyl vinyl ether)	2.1	UN3154		FLAMMABLE GAS		306	302, 304, 305	
	Perfluoro(methyl vinyl ether)	2.1	UN3153		FLAMMABLE GAS	T50	306	302, 304, 305	
	Perfumery products with flammable solvents	3	UN1266	II	FLAMMABLE LIQUID	149, IB2, T4, TP1, TP8	150	202	
	Perfumery products with flammable solvents	3	UN1266	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Permanganates, inorganic, aqueous solution, n.o.s.	5.1	UN3214	II	OXIDIZER	26, IB2, T4, TP1	152	202	
	Permanganates, inorganic, n.o.s.	5.1	UN1482	II	OXIDIZER	26, A30, IB6, IP2, T3, TP33	152	212	
	Permanganates, inorganic, n.o.s.	5.1	UN1482	III	OXIDIZER	26, A30, IB8, IP3, T1, TP33	152	213	
	Peroxides, inorganic, n.o.s.	5.1	UN1483	II	OXIDIZER	A7, A20, IB6, IP2, N34, T3, TP33	None	212	
	Peroxides, inorganic, n.o.s.	5.1	UN1483	III	OXIDIZER	A7, A20, IB8, IP3, N34, T1, TP33	152	213	
	<i>Peroxyacetic acid, with more than 43 percent and with more than 6 percent hydrogen peroxide</i>	Forbidden							Not Accepted by FedEx Ground
	Persulfates, inorganic, aqueous solution, n.o.s.	5.1	UN3216	III	OXIDIZER	IB2, T4, TP1, TP29	152	203	
	Persulfates, inorganic, n.o.s.	5.1	UN3215	III	OXIDIZER	IB8, IP3, T1, TP33	152	213	
G	Pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN3021	I	FLAMMABLE LIQUID, POISON	B5, T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN3021	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Pesticides, liquid, toxic, flammable, n.o.s. flash point not less than 23 degrees C	6.1 (3)	UN2903	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Pesticides, liquid, toxic, flammable, n.o.s. flash point not less than 23 degrees C	6.1 (3)	UN2903	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Pesticides, liquid, toxic, flammable, n.o.s. flash point not less than 23 degrees C	6.1 (3)	UN2903	III	POISON, FLAMMABLE LIQUID	B1, IB3, T7, TP2	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Pesticides, liquid, toxic, n.o.s.	6.1	UN2902	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Pesticides, liquid, toxic, n.o.s.	6.1	UN2902	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Pesticides, liquid, toxic, n.o.s.	6.1	UN2902	III	POISON	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Pesticides, solid, toxic, n.o.s.	6.1	UN2588	I	POISON	IB7, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Pesticides, solid, toxic, n.o.s.	6.1	UN2588	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Pesticides, solid, toxic, n.o.s.	6.1	UN2588	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	PETN, <i>see</i> Pentaerythrite tetranitrate								NA
	PETN/TNT, <i>see</i> Pentolite, etc								NA
	Petrol, <i>see</i> Gasoline								NA
	Petroleum crude oil	3	UN1267	I	FLAMMABLE LIQUID	144, T11, TP1, TP8	150	201	
	Petroleum crude oil	3	UN1267	II	FLAMMABLE LIQUID	144, IB2, T4, TP1, TP8	150	202	
	Petroleum crude oil	3	UN1267	III	FLAMMABLE LIQUID	144, B1, IB3, T2, TP1	150	203	
	Petroleum distillates, n.o.s. or Petroleum products, n.o.s.	3	UN1268	I	FLAMMABLE LIQUID	144, T11, TP1, TP8	150	201	
	Petroleum distillates, n.o.s. or Petroleum products, n.o.s.	3	UN1268	II	FLAMMABLE LIQUID	144, IB2, T7, TP1, TP8, TP28	150	202	
	Petroleum distillates, n.o.s. or Petroleum products, n.o.s.	3	UN1268	III	FLAMMABLE LIQUID	144, B1, IB3, T4, TP1, TP29	150	203	
	Petroleum gases, liquefied or Liquefied petroleum gas	2.1	UN1075		FLAMMABLE GAS	T50	306	304	
D	Petroleum oil	3	NA1270	I	FLAMMABLE LIQUID	144, T11, TP1	None	201	
D	Petroleum oil	3	NA1270	II	FLAMMABLE LIQUID	144, IB2, T7, TP1, TP8, TP28	150	202	
D	Petroleum oil	3	NA1270	III	FLAMMABLE LIQUID	144, B1, IB3, T4, TP1, TP29	150	203	
	Phenacyl bromide	6.1	UN2645	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
+	Phenetidines	6.1	UN2311	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenol, molten	6.1	UN2312	II	POISON	B14, T7, TP3	None	202	Not Accepted by FedEx Ground
+	Phenol, solid	6.1	UN1671	II	POISON	IB8, IP2, IP4, N78, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenol solutions	6.1	UN2821	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenol solutions	6.1	UN2821	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenolsulfonic acid, liquid	8	UN1803	II	CORROSIVE	B2, IB2, N41, T7, TP2	154	202	
	Phenoxyacetic acid derivative pesticide, liquid, flammable, toxic flash point less than 23 degrees C	3 (6.1)	UN3346	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenoxyacetic acid derivative pesticide, liquid, flammable, toxic flash point less than 23 degrees C	3 (6.1)	UN3346	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenoxyacetic acid derivative pesticide, liquid, toxic	6.1	UN3348	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenoxyacetic acid derivative pesticide, liquid, toxic	6.1	UN3348	II	POISON	IB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenoxyacetic acid derivative pesticide, liquid, toxic	6.1	UN3348	III	POISON	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenoxyacetic acid derivative pesticide, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3347	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenoxyacetic acid derivative pesticide, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3347	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenoxyacetic acid derivative pesticide, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3347	III	POISON, FLAMMABLE LIQUID	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Phenoxyacetic acid derivative pesticide, solid, toxic	6.1	UN3345	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenoxyacetic acid derivative pesticide, solid, toxic	6.1	UN3345	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenoxyacetic acid derivative pesticide, solid, toxic	6.1	UN3345	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenyl chloroformate	6.1 (8)	UN2746	II	POISON, CORROSIVE	IB2, T7, TP2, TP13	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenyl isocyanate	6.1 (3)	UN2487	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, B77, N33, N34, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Phenyl mercaptan	6.1 (3)	UN2337	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Phenyl phosphorus dichloride	8	UN2798	II	CORROSIVE	B2, B15, IB2, T7, TP2	154	202	
	Phenyl phosphorus thiodichloride	8	UN2799	II	CORROSIVE	B2, B15, IB2, T7, TP2	154	202	
	Phenyl urea pesticides, liquid, toxic	6.1	UN3002	I	POISON	T14, TP2 TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenyl urea pesticides, liquid, toxic	6.1	UN3002	II	POISON	T7, TP2	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenyl urea pesticides, liquid, toxic	6.1	UN3002	III	POISON	T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenylacetoneitrile, liquid	6.1	UN2470	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenylacetyl chloride	8	UN2577	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	Phenylcarbylamine chloride	6.1	UN1672	I	POISON	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	<i>m</i> -Phenylene diaminediperchlorate (dry)	Forbidden							Not Accepted by FedEx Ground
+	Phenylenediamines (<i>o</i> -; <i>m</i> -; <i>p</i> -)	6.1	UN1673	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenylhydrazine	6.1	UN2572	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenylmercuric acetate	6.1	UN1674	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenylmercuric compounds, n.o.s.	6.1	UN2026	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenylmercuric compounds, n.o.s.	6.1	UN2026	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenylmercuric compounds, n.o.s.	6.1	UN2026	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenylmercuric hydroxide	6.1	UN1894	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenylmercuric nitrate	6.1	UN1895	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Phenyltrichlorosilane	8	UN1804	II	CORROSIVE	A7, B6, IB2, N34, T7, TP2	None	202	
	Phosgene	2.3 (8)	UN1076		POISON GAS, CORROSIVE	1, B7, B46	None	192	Not Accepted by FedEx Ground
	9-Phosphabicyclononanes or Cyclooctadiene phosphines	4.2	UN2940	II	SPONTANEOUSLY COMBUSTIBLE	A19, IB6, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Phosphine	2.3 (2.1)	UN2199		POISON GAS, FLAMMABLE GAS	1	None	192	Not Accepted by FedEx Ground
	Phosphoric acid solution	8	UN1805	III	CORROSIVE	A7, IB3, N34, T4, TP1	154	203	
	Phosphoric acid, solid	8	UN3453	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	<i>Phosphoric acid triethyleneimine, see Tris-(1-aziridyl)phosphine oxide, solution</i>								NA
	<i>Phosphoric anhydride, see Phosphorus pentoxide</i>								NA
	Phosphorous acid	8	UN2834	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Phosphorus, amorphous	4.1	UN1338	III	FLAMMABLE SOLID	A1, A19, B1, B9, B26, IB8, IP3, T1, TP33	None	213	
	<i>Phosphorus bromide, see Phosphorus tribromide</i>								NA
	<i>Phosphorus chloride, see Phosphorus trichloride</i>								NA
	Phosphorus heptasulfide, free from yellow or white phosphorus	4.1	UN1339	II	FLAMMABLE SOLID	A20, IB4, N34, T3, TP33	None	212	
	Phosphorus oxybromide	8	UN1939	II	CORROSIVE	B8, IB8, IP2, IP4, N41, N43, T3, TP33	None	212	
	Phosphorus oxybromide, molten	8	UN2576	II	CORROSIVE	B2, B8, IB1, N41, N43, T7, TP3, TP13	None	202	Not Accepted by FedEx Ground
+	Phosphorus oxychloride	8 (6.1)	UN1810	II	CORROSIVE, POISON	2, B9, B14, B32, B74, B77, N34, T20, TP2, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Phosphorus pentabromide	8	UN2691	II	CORROSIVE	A7, IB8, IP2, IP4, N34, T3, TP33	154	212	
	Phosphorus pentachloride	8	UN1806	II	CORROSIVE	A7, IB8, IP2, IP4, N34, T3, TP33	None	212	
	Phosphorus Pentafluoride	2.3 (8)	UN2198		POISON GAS, CORROSIVE	2, B9, B14	None	302, 304	Not Accepted by FedEx Ground
	Phosphorus pentasulfide, free from yellow or white phosphorus	4.3 (4.1)	UN1340	II	DANGEROUS WHEN WET, FLAMMABLE SOLID	A20, B59, IB4, T3, TP33	151	212	Not Accepted by FedEx Ground
	Phosphorus pentoxide	8	UN1807	II	CORROSIVE	A7, IB8, IP2, IP4, N34, T3, TP33	154	212	
	Phosphorus sesquisulfide, free from yellow or white phosphorus	4.1	UN1341	II	FLAMMABLE SOLID	A20, IB4, N34, T3, TP33	None	212	
	Phosphorus tribromide	8	UN1808	II	CORROSIVE	A3, A6, A7, B2, B25, IB2, N34, N43, T7, TP2	None	202	
	Phosphorus trichloride	6.1 (8)	UN1809	I	POISON, CORROSIVE	2, B9, B14, B15, B32, B74, B77, N34, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Phosphorus trioxide	8	UN2578	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Phosphorus trisulfide, free from yellow or white phosphorus	4.1	UN1343	II	FLAMMABLE SOLID	A20, IB4, N34, T3, TP33	None	212	
	Phosphorus, white dry or Phosphorus, white, under water or Phosphorus white, in solution or Phosphorus, yellow dry or Phosphorus, yellow, under water or Phosphorus, yellow, in solution	4.2 (6.1)	UN1381	I	SPONTANEOUSLY COMBUSTIBLE, POISON	B9, B26, N34, T9, TP3, TP31	None	188	Not Accepted by FedEx Ground
	Phosphorus white, molten	4.2 (6.1)	UN2447	I	SPONTANEOUSLY COMBUSTIBLE, POISON	B9, B26, N34, T21, TP3, TP7, TP26	None	188	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	<i>Phosphorus (white or red) and a chlorate, mixtures of</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Phosphoryl chloride, see Phosphorus oxychloride</i>								NA
	Phthalic anhydride with more than .05 percent maleic anhydride	8	UN2214	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Picolines	3	UN2313	III	FLAMMABLE LIQUID	B1, IB3, T4, TP1	150	203	
	<i>Picric acid, see Trinitrophenol, etc</i>								NA
	<i>Picrite, see Nitroguanidine, etc</i>								NA
	<i>Picryl chloride, see Trinitrochlorobenzene</i>								NA
	Pine oil	3	UN1272	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	alpha-Pinene	3	UN2368	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Piperazine	8	UN2579	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Piperidine	8 (3)	UN2401	I	CORROSIVE, FLAMMABLE LIQUID	A10, T10, TP2	None	201	
	<i>Pivaloyl chloride, see Trimethylacetyl chloride</i>								NA
	Plastic molding compound in dough, sheet or extruded rope form evolving flammable vapor	9	UN3314	III	CLASS 9	32, IB8, IP3, IP7	155	221	
	<i>Plastic solvent, n.o.s., see Flammable liquids, n.o.s.</i>								NA
	Plastics, nitrocellulose-based, self-heating, n.o.s.	4.2	UN2006	III	SPONTANEOUSLY COMBUSTIBLE		None	213	Not Accepted by FedEx Ground
	<i>Poisonous gases, n.o.s., see Compressed or liquefied gases, flammable or toxic, n.o.s.</i>								NA
	<i>Polyalkylamines, n.o.s., see Amines, etc</i>								NA
	Polyamines, flammable, corrosive, n.o.s. see Amines, flammable, corrosive, n.o.s								NA
	Polyamines, liquid, corrosive, n.o.s. see Amines, liquid, corrosive, n.o.s								NA
	Polyamines, liquid, corrosive, flammable, n.o.s. see Amines, liquid, corrosive, flammable, n.o.s								NA
	Polychlorinated biphenyls, liquid	9	UN2315	II	CLASS 9	9, 81, 140, IB3, T4, TP1	155	202	
	Polychlorinated biphenyls, solid	9	UN3432	II	CLASS 9	9, 81, 140, IB8, T3, TP33	155	212	
	Polyester resin kit	3	UN3269		FLAMMABLE LIQUID	40, 149	152	225	See Special Provision 40 for Packing Group
	Polyhalogenated biphenyls, liquid or Polyhalogenated terphenyls liquid	9	UN3151	II	CLASS 9	IB2	155	204	
	Polyhalogenated biphenyls, solid or Polyhalogenated terphenyls, solid	9	UN3152	II	CLASS 9	IB8, IP2, IP4, T3, TP33	155	204	
	Polymeric beads expandable, evolving flammable vapor	9	UN2211	III	CLASS 9	32, IB8, IP3, IP7, T1, TP33	155	221	
	Potassium	4.3	UN2257	I	DANGEROUS WHEN WET	A7, A19, A20, B27, IB4, IP1, N6, N34, T9, TP7, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Potassium arsenate	6.1	UN1677	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Potassium arsenite	6.1	UN1678	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	<i>Potassium bisulfite solution, see Bisulfites, aqueous solutions, n.o.s.</i>								NA
	Potassium borohydride	4.3	UN1870	I	DANGEROUS WHEN WET	A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Potassium bromate	5.1	UN1484	II	OXIDIZER	IB8, IP4, T3, TP33	152	212	
	<i>Potassium carbonyl</i>	Forbidden							Not Accepted by FedEx Ground
	Potassium chlorate	5.1	UN1485	II	OXIDIZER	A9, IB8, IP4, N34, T3, TP33	152	212	
	Potassium chlorate, aqueous solution	5.1	UN2427	II	OXIDIZER	A2, IB2, T4, TP1	152	202	
	Potassium chlorate, aqueous solution	5.1	UN2427	III	OXIDIZER	A2, IB2, T4, TP1	152	203	
	<i>Potassium chlorate mixed with mineral oil, see Explosive, blasting, type C</i>								NA
	Potassium cuprocyanide	6.1	UN1679	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Potassium cyanide, solid	6.1	UN1680	I	POISON	B69, B77, IB7, IP1, N74, N75, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Potassium cyanide solution	6.1	UN3413	I	POISON	B69, B77, N74, N75, T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Potassium cyanide solution	6.1	UN3413	II	POISON	B69, B77, IB2, N74, N75, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Potassium cyanide solution	6.1	UN3413	III	POISON	B69, B77, IB3, N74, N75, T7, TP2, TP13, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	<i>Potassium dichloro isocyanurate or Potassium dichloro-s-triazinetriene, see Dichloroisocyanuric acid, dry or Dichloroisocyanuric acid salts etc</i>								NA
	Potassium dithionite or Potassium hydrosulfite	4.2	UN1929	II	SPONTANEOUSLY COMBUSTIBLE	A8, A19, A20, IB6, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
	Potassium fluoride, solid	6.1	UN1812	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Potassium fluoride solution	6.1	UN3422	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Potassium fluoroacetate	6.1	UN2628	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Potassium fluorosilicate	6.1	UN2655	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Potassium hydrate, see Potassium hydroxide, solid</i>								NA
	<i>Potassium hydrogen fluoride, see Potassium hydrogen difluoride</i>								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	<i>Potassium hydrogen fluoride solution, see Corrosive liquid, n.o.s.</i>								NA
	Potassium hydrogen sulfate	8	UN2509	II	CORROSIVE	A7, IB8, IP2, IP4, N34, T3, TP33	154	212	
	Potassium hydrogendifluoride solid	8 (6.1)	UN1811	II	CORROSIVE, POISON	IB8, IP2, IP4, N3, N34, T3, TP33	154	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Potassium hydrogendifluoride solution	8 (6.1)	UN3421	II	CORROSIVE, POISON	IB2, N3, N34, T7, TP2	154	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Potassium hydrogendifluoride solution	8 (6.1)	UN3421	III	CORROSIVE, POISON	IB3, N3, N34, T4, TP1	154	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Potassium hydrosulfite, see Potassium dithionite</i>								NA
	<i>Potassium hydroxide, liquid, see Potassium hydroxide solution</i>								NA
	Potassium hydroxide, solid	8	UN1813	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Potassium hydroxide, solution	8	UN1814	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	Potassium hydroxide, solution	8	UN1814	III	CORROSIVE	IB3, T4, TP1	154	203	
	<i>Potassium hypochlorite, solution, see Hypochlorite solutions, etc</i>								NA
	Potassium, metal alloys, liquid	4.3	UN1420	I	DANGEROUS WHEN WET	A7, A19, A20, B27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Potassium, metal alloys, solid	4.3	UN3403	I	DANGEROUS WHEN WET	A19, A20, B27, IB4, IP1, T9, TP7, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Potassium metavanadate	6.1	UN2864	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Potassium monoxide	8	UN2033	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Potassium nitrate	5.1	UN1486	III	OXIDIZER	A1, A29, IB8, IP3, T1, TP33	152	213	
	Potassium nitrate and sodium nitrite mixtures	5.1	UN1487	II	OXIDIZER	B78, IB8, IP4, T3, TP33	152	212	
	Potassium nitrite	5.1	UN1488	II	OXIDIZER	IB8, IP4, T3, TP33	152	212	
	Potassium perchlorate	5.1	UN1489	II	OXIDIZER	IB6, IP2, T3, TP33	152	212	
	Potassium permanganate	5.1	UN1490	II	OXIDIZER	IB8, IP4, T3, TP33	152	212	
	Potassium peroxide	5.1	UN1491	I	OXIDIZER	A20, IB6, IP1, N34	None	211	
	Potassium persulfate	5.1	UN1492	III	OXIDIZER	A1, A29, IB8, IP3, T1, TP33	152	213	
	Potassium phosphide	4.3 (6.1)	UN2012	I	DANGEROUS WHEN WET, POISON	A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Potassium selenate, see Selenates or Selenites</i>								NA
	<i>Potassium selenite, see Selenates or Selenites</i>								NA
	Potassium sodium alloys, liquid	4.3	UN1422	I	DANGEROUS WHEN WET	A7, A19, B27, N34, N40, T9, TP3, TP7, TP31	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Potassium sodium alloys, solid	4.3	UN3404	I	DANGEROUS WHEN WET	A19, B27, N34, N40, T9, TP7, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Potassium sulfide, anhydrous or Potassium sulfide with less than 30 percent water of crystallization	4.2	UN1382	II	SPONTANEOUSLY COMBUSTIBLE	A19, A20, B16, IB6, IP2, N34, T3, TP33	None	212	Not Accepted by FedEx Ground
	Potassium sulfide, hydrated with not less than 30 percent water of crystallization	8	UN1847	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Potassium superoxide	5.1	UN2466	I	OXIDIZER	A20, IB6, IP1	None	211	
	Powder cake, wetted or Powder paste, wetted with not less than 17 percent alcohol by mass	1.1C	UN0433	II	EXPLOSIVE 1.1C		None	62	Not Accepted by FedEx Ground
	Powder cake, wetted or Powder paste, wetted with not less than 25 percent water, by mass	1.3C	UN0159	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Powder paste, see Powder cake, etc								NA
	Powder, smokeless	1.1C	UN0160	II	EXPLOSIVE 1.1C		None	62	Not Accepted by FedEx Ground
	Powder, smokeless	1.3C	UN0161	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
D	Powder, smokeless	1.4C	UN0509		EXPLOSIVE 1.4C		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	<i>Power device, explosive, see Cartridges, power device</i>								NA
	Primers, cap type	None	UN0044	II	NONE		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Primers, cap type	1.1B	UN0377	II	EXPLOSIVE 1.1B		None	62	Not Accepted by FedEx Ground
	Primers, cap type	1.4B	UN0378	II	EXPLOSIVE 1.4B		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	<i>Primers, small arms, see Primers, cap type</i>								NA
	Primers, tubular	1.3G	UN0319	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	Primers, tubular	1.4G	UN0320	II	EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Primers, tubular	None	UN0376	II	NONE		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Printing ink, flammable or Printing ink related material (including printing ink thinning or reducing compound), flammable	3	UN1210	I	FLAMMABLE LIQUID	T11, TP1, TP8	150	173	
	Printing ink, flammable or Printing ink related material (including printing ink thinning or reducing compound), flammable	3	UN1210	II	FLAMMABLE LIQUID	149, IB2, T4, TP1, TP8	150	173	
	Printing ink, flammable or Printing ink related material (including printing ink thinning or reducing compound), flammable	3	UN1210	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	173	
	<i>Projectiles, illuminating, see Ammunition, illuminating, etc</i>								NA
	Projectiles, inert with tracer	1.4S	UN0345	II	EXPLOSIVE 1.4S			62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Projectiles, inert, with tracer	1.3G	UN0424	II	EXPLOSIVE 1.3G			62	Not Accepted by FedEx Ground
	Projectiles, inert, with tracer	1.4G	UN0425	II	EXPLOSIVE 1.4G			62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Projectiles, with burster or expelling charge	1.2D	UN0346	II	EXPLOSIVE 1.2D			62	Not Accepted by FedEx Ground
	Projectiles, with burster or expelling charge	1.4D	UN0347	II	EXPLOSIVE 1.4D			62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Projectiles, with burster or expelling charge	1.2F	UN0426	II	EXPLOSIVE 1.2F			62	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Projectiles, with burster or expelling charge	1.4F	UN0427	II	EXPLOSIVE 1.4F			62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Projectiles, with burster or expelling charge	1.2G	UN0434	II	EXPLOSIVE 1.2G			62	Not Accepted by FedEx Ground
	Projectiles, with burster or expelling charge	1.4G	UN0435	II	EXPLOSIVE 1.4G			62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Projectiles, with bursting charge	1.1F	UN0167	II	EXPLOSIVE 1.1F			62	Not Accepted by FedEx Ground
	Projectiles, with bursting charge	1.1D	UN0168	II	EXPLOSIVE 1.1D			62	Not Accepted by FedEx Ground
	Projectiles, with bursting charge	1.2D	UN0169	II	EXPLOSIVE 1.2D			62	Not Accepted by FedEx Ground
	Projectiles, with bursting charge	1.2F	UN0324	II	EXPLOSIVE 1.2F			62	Not Accepted by FedEx Ground
	Projectiles, with bursting charge	1.4D	UN0344	II	EXPLOSIVE 1.4D			62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Propadiene, stabilized	2.1	UN2200		FLAMMABLE GAS		None	304	
	<i>Propadiene mixed with methyl acetylene, see Methyl acetylene and propadiene mixtures, stabilized</i>								NA
	Propane see also Petroleum gases, liquefied	2.1	UN1978		FLAMMABLE GAS	19, T50	306	304	
	Propanethiols	3	UN2402	II	FLAMMABLE LIQUID	A6, IB2, T4, TP1, TP13	150	202	
	n-Propanol or Propyl alcohol, normal	3	UN1274	II	FLAMMABLE LIQUID	B1, IB2, T4, TP1	150	202	
	n-Propanol or Propyl alcohol, normal	3	UN1274	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Propellant, liquid	1.3C	UN0495	II	EXPLOSIVE 1.3C	37	None	62	Not Accepted by FedEx Ground
	Propellant, liquid	1.1C	UN0497	II	EXPLOSIVE 1.1C	37	None	62	Not Accepted by FedEx Ground
	Propellant, solid	1.1C	UN0498	II	EXPLOSIVE 1.1C		None	62	Not Accepted by FedEx Ground
	Propellant, solid	1.3C	UN0499	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Propellant, solid	1.4C	UN0501		EXPLOSIVE 1.4C		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Propionaldehyde	3	UN1275	II	FLAMMABLE LIQUID	IB2, T7, TP1	150	202	
	Propionic acid with not less than 90% acid by mass	8 (3)	UN3463	II	CORROSIVE, FLAMMABLE LIQUID	IB2, T7, TP2	154	202	
	Propionic acid with not less than 10% and less than 90% acid by mass	8	UN1848	III	CORROSIVE	IB3, T4, TP1	154	203	
	Propionic anhydride	8	UN2496	III	CORROSIVE	IB3, T4, TP1	154	203	
	Propionitrile	3 (6.1)	UN2404	II	FLAMMABLE LIQUID, POISON	IB2, T7, TP1, TP13	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Propionyl chloride	3 (8)	UN1815	II	FLAMMABLE LIQUID, CORROSIVE	IB1, T7, TP1	150	202	
	n-Propyl acetate	3	UN1276	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Propyl alcohol, see Propanol								NA
	n-Propyl benzene	3	UN2364	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	n-Propyl chloroformate	6.1 (3, 8)	UN2740	I	POISON, FLAMMABLE LIQUID, CORROSIVE	2, B9, B14, B32, B74, B77, N34, T20, TP2, TP13, TP38, TP44	None	227	Not Accepted by FedEx Ground
	<i>Propyl chloride see 1-Chloropropane</i>								NA
	Propyl formates	3	UN1281	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	n-Propyl isocyanate	6.1 (3)	UN2482	I	POISON, FLAMMABLE LIQUID	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	Not Accepted by FedEx Ground
	<i>Propyl mercaptan, see Propanethiols</i>								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	n-Propyl nitrate	3	UN1865	II	FLAMMABLE LIQUID	IB9	150	202	
	Propylamine	3 (8)	UN1277	II	FLAMMABLE LIQUID, CORROSIVE	A7, IB2, N34, T7, TP1	150	202	
	Propylene <i>see also</i> Petroleum gases, liquefied	2.1	UN1077		FLAMMABLE GAS	19, T50	306	304	
	Propylene chlorohydrin	6.1 (3)	UN2611	II	POISON, FLAMMABLE LIQUID	IB2, T7, TP2, TP13	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Propylene oxide	3	UN1280	I	FLAMMABLE LIQUID	A3, N34, T11, TP2, TP7	None	201	
	Propylene tetramer	3	UN2850	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	1,2-Propylenediamine	8 (3)	UN2258	II	CORROSIVE, FLAMMABLE LIQUID	A3, A6, IB2, N34, T7, TP2	None	202	
	Propyleneimine, stabilized	3 (6.1)	UN1921	I	FLAMMABLE LIQUID, POISON	A3, N34, T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Propyltrichlorosilane	8 (3)	UN1816	II	CORROSIVE, FLAMMABLE LIQUID	A7, B2, B6, IB2, N34, T7, TP2, TP13	None	202	
	<i>Prussic acid, see Hydrogen cyanide</i>								NA
	Pyrethroid pesticide, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN3350	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Pyrethroid pesticide, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN3350	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Pyrethroid pesticide, liquid toxic	6.1	UN3352	I	POISON	T14, TP2, TP13, TP27	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Pyrethroid pesticide, liquid toxic	6.1	UN3352	II	POISON	IB2, T11, TP2, TP27	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Pyrethroid pesticide, liquid toxic	6.1	UN3352	III	POISON	IB3, T7, TP2, TP28	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Pyrethroid pesticide, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3351	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Pyrethroid pesticide, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3351	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Pyrethroid pesticide, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3351	III	POISON, FLAMMABLE LIQUID	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Pyrethroid pesticide, solid, toxic	6.1	UN3349	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Pyrethroid pesticide, solid, toxic	6.1	UN3349	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Pyrethroid pesticide, solid, toxic	6.1	UN3349	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Pyridine	3	UN1282	II	FLAMMABLE LIQUID	IB2, T4, TP2	None	202	
	Pyridine perchlorate	Forbidden							Not Accepted by FedEx Ground
G	Pyrophoric liquid, inorganic, n.o.s.	4.2	UN3194	I	SPONTANEOUSLY COMBUSTIBLE		None	181	Not Accepted by FedEx Ground
G	Pyrophoric liquids, organic, n.o.s.	4.2	UN2845	I	SPONTANEOUSLY COMBUSTIBLE	B11, T22, TP2, TP7	None	181	Not Accepted by FedEx Ground
G	Pyrophoric metals, n.o.s., or Pyrophoric alloys, n.o.s.	4.2	UN1383	I	SPONTANEOUSLY COMBUSTIBLE	B11, T21, TP7, TP33	None	187	Not Accepted by FedEx Ground
G	Pyrophoric solid, inorganic, n.o.s.	4.2	UN3200	I	SPONTANEOUSLY COMBUSTIBLE	T21, TP7, TP33	None	187	Not Accepted by FedEx Ground
G	Pyrophoric solids, organic, n.o.s.	4.2	UN2846	I	SPONTANEOUSLY COMBUSTIBLE		None	187	Not Accepted by FedEx Ground
	Pyrosulfuryl chloride	8	UN1817	II	CORROSIVE	B2, IB2, T8, TP2, TP12	154	202	
	Pyroxylin solution or solvent, <i>see Nitrocellulose</i>								NA
	Pyrrolidine	3 (8)	UN1922	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1	150	202	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	<i>Quebrachitol pentanitrate</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Quicklime, see Calcium oxide</i>								NA
	Quinoline	6.1	UN2656	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>R 12, see Dichlorodifluoromethane</i>								NA
	<i>R 12B1, see Chlorodifluorobromomethane</i>								NA
	<i>R 13, see Chlorotrifluoromethane</i>								NA
	<i>R 13B1, see Bromotrifluoromethane</i>								NA
	<i>R 14, see Tetrafluoromethane</i>								NA
	<i>R 21, see Dichlorofluoromethane</i>								NA
	<i>R 22, see Chlorodifluoromethane</i>								NA
	<i>R 114, see Dichlorotetrafluoroethane</i>								NA
	<i>R 115, see Chloropentafluoroethane</i>								NA
	<i>R 116, see Hexafluoroethane</i>								NA
	<i>R 124, see Chlorotetrafluoroethane</i>								NA
	<i>R 133a, see Chlorotrifluoroethane</i>								NA
	<i>R 152a, see Difluoroethane</i>								NA
	<i>R 500, see Dichlorodifluoromethane and difluoroethane, etc</i>								NA
	<i>R 502, see Chlorodifluoromethane and chloropentafluoroethane mixture, etc</i>								NA
	<i>R 503, see Chlorotrifluoromethane and trifluoromethane, etc</i>								NA
	Radioactive material, excepted package-articles manufactured from natural uranium or depleted uranium or natural thorium	None	UN2909		NONE		422, 426	422, 426	See FedEx Ground HazMat Shipping Guide Radioactive Section
	Radioactive material, excepted package-empty packaging	Empty	UN2908		EMPTY		422, 428	422, 428	See FedEx Ground HazMat Shipping Guide Radioactive Section
	Radioactive material, excepted package-instruments or articles	None	UN2911		NONE		422, 424	422, 424	See FedEx Ground HazMat Shipping Guide Radioactive Section
	Radioactive material, excepted package-limited quantity of material	None	UN2910		NONE		421, 422	421, 422	See FedEx Ground HazMat Shipping Guide Radioactive Section
	Radioactive material, low specific activity (LSA-I) non fissile or fissile-excepted	7	UN2912		RADIOACTIVE WHITE I	A56, T5, TP4, W7	421, 422, 428	427	See FedEx Ground HazMat Shipping Guide Radioactive Section
	Radioactive material, low specific activity (LSA-II) non fissile or fissile-excepted	7	UN3321		RADIOACTIVE WHITE I	A56, T5, TP4, W7	421, 422, 428	427	See FedEx Ground HazMat Shipping Guide Radioactive Section
	Radioactive material, low specific activity (LSA-III) non fissile or fissile excepted	7	UN3322		RADIOACTIVE WHITE I	A56, T5, TP4, W7	421, 422, 428	427	See FedEx Ground HazMat Shipping Guide Radioactive Section
	Radioactive material, surface contaminated objects (SCO-I or SCO-II) non fissile or fissile-excepted	7	UN2913		RADIOACTIVE WHITE I	A56	421, 422, 428	427	See FedEx Ground HazMat Shipping Guide Radioactive Section
	Radioactive material, transported under special arrangement, non fissile or fissile excepted	7	UN2919		RADIOACTIVE	A56, 139			Not Accepted by FedEx Ground
	Radioactive material, transported under special arrangement, fissile	7	UN3331		RADIOACTIVE	A56, 139			Not Accepted by FedEx Ground
	Radioactive material, Type A package, fissile non-special form	7	UN3327		RADIOACTIVE	A56, W7, W8	453	417	Not Accepted by FedEx Ground
	Radioactive material, Type A package non-special form, non fissile or fissile-excepted	7	UN2915		RADIOACTIVE WHITE I	A56, W7, W8	None	415, 418, 419	See FedEx Ground HazMat Shipping Guide Radioactive Section
	Radioactive material, Type A package, special form non fissile or fissile-excepted	7	UN3332		RADIOACTIVE WHITE I	A56, W7, W8		415, 476	See FedEx Ground HazMat Shipping Guide Radioactive Section

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1 Symbols	2 Hazardous Materials Description and Proper Shipping Name	3 Hazard Class or Division	4 Identification Numbers	5 PG	6 Label Codes	7 Special Provisions	8A Section 173.*** Exceptions	8B Section 173.*** NonBulk	9 FedEx Ground Restrictions
	Radioactive material, Type A package, special form, fissile	7	UN3333		RADIOACTIVE	A56, W7, W8	453	417, 476	Not Accepted by FedEx Ground
	Radioactive material, Type B(M) package, fissile	7	UN3329		RADIOACTIVE	A56	453	417	Not Accepted by FedEx Ground
	Radioactive material, Type B(M) package non fissile or fissile-excepted	7	UN2917		RADIOACTIVE	A56		416	Not Accepted by FedEx Ground
	Radioactive material, Type B(U) package, fissile	7	UN3328		RADIOACTIVE	A56	453	417	Not Accepted by FedEx Ground
	Radioactive material, Type B(U) package non fissile or fissile-excepted	7	UN2916		RADIOACTIVE	A56		416	Not Accepted by FedEx Ground
	Radioactive material, uranium hexafluoride non fissile or fissile-excepted	7 (8)	UN2978		RADIOACTIVE, CORROSIVE		423	420, 427	Not Accepted by FedEx Ground
	Radioactive material, uranium hexafluoride, fissile	7 (8)	UN2977		RADIOACTIVE, CORROSIVE		453	417, 420	Not Accepted by FedEx Ground
A W	Rags, oily <i>Railway torpedo, see Signals, railway track, explosive</i>	4.2	UN1856	III	SPONTANEOUSLY COMBUSTIBLE		151	213	Not Accepted by FedEx Ground
	<i>RC 318, see Octafluorocyclobutane</i>								NA
	RDX and cyclotetramethylenetetranitramine, wetted or desensitized see RDX and HMX mixtures, wetted or desensitized								NA
	RDX and HMX mixtures, wetted with not less than 15 percent water by mass or RDX and HMX mixtures, desensitized with not less than 10 percent phlegmatizer by mass	1.1D	UN0391	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	RDX and Octogen mixtures, wetted or desensitized see RDX and HMX mixtures, wetted or desensitized etc								NA
	<i>RDX, see Cyclotrimethylene trinitramine, etc</i>								NA
	Receptacles, small, containing gas or gas cartridges (flammable) without release device, not refillable and not exceeding 1 L capacity	2.1	UN2037		FLAMMABLE GAS		306	304	
	Receptacles, small, containing gas or gas cartridges (non-flammable) without release device, not refillable and not exceeding 1 L capacity	2.2	UN2037		NONFLAMMABLE GAS		306	304	
	Receptacles, small, containing gas or gas cartridges (oxidizing) without release device, not refillable and not exceeding 1 L capacity	2.2 (5.1)	UN2037		NONFLAMMABLE GAS, OXIDIZER	A14	306	304	
	<i>Red phosphorus, see Phosphorus, amorphous</i>								NA
	Refrigerant gas R 404A	2.2	UN3337		NONFLAMMABLE GAS	T50	306	304	
	Refrigerant gas R 407A	2.2	UN3338		NONFLAMMABLE GAS	T50	306	304	
	Refrigerant gas R 407B	2.2	UN3339		NONFLAMMABLE GAS	T50	306	304	
	Refrigerant gas R 407C	2.2	UN3340		NONFLAMMABLE GAS	T50	306	304	
G	Refrigerant gases, n.o.s.	2.2	UN1078		NONFLAMMABLE GAS	T50	306	304	
D	Refrigerant gases, n.o.s. or Dispersant gases, n.o.s.	2.1	NA1954		FLAMMABLE GAS	T50	306	304	
	Refrigerating machines, containing flammable, non-toxic, liquefied gas	2.1	UN3358		FLAMMABLE GAS		306, 307	306	
	Refrigerating machines, containing non-flammable, non-toxic gases, or ammonia solutions (UN2672)	2.2	UN2857		NONFLAMMABLE GAS	A53	306, 307	306	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Regulated medical waste, n.o.s. or Clinical waste, unspecified, n.o.s. or (BIO)Medical waste, n.o.s., or Biomedical waste, n.o.s. or Medical waste, n.o.s	6.2	UN3291	II	INFECTIOUS SUBSTANCE	A13	134	197	Not Accepted by FedEx Ground
	Release devices, explosive	1.4S	UN0173	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Resin solution, flammable	3	UN1866	I	FLAMMABLE LIQUID	B52, T11, TP1, TP8, TP28	150	201	
	Resin solution, flammable	3	UN1866	II	FLAMMABLE LIQUID	149, B52, IB2, T4, TP1, TP8	150	173	
	Resin solution, flammable	3	UN1866	III	FLAMMABLE LIQUID	B1, B52, IB3, T2, TP1	150	173	
	Resorcinol	6.1	UN2876	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Rifle grenade, see Grenades, hand or rifle, etc								NA
	Rifle powder, see Powder, smokeless (UN 0160)								NA
	Rivets, explosive	1.4S	UN0174	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Road asphalt or tar liquid, see Tars, liquid, etc								NA
	Rocket motors	1.3C	UN0186	II	EXPLOSIVE 1.3C	109	None	62	Not Accepted by FedEx Ground
	Rocket motors	1.1C	UN0280	II	EXPLOSIVE 1.1C	109	None	62	Not Accepted by FedEx Ground
	Rocket motors	1.2C	UN0281	II	EXPLOSIVE 1.2C	109	None	62	Not Accepted by FedEx Ground
	Rocket motors, liquid fueled	1.2J	UN0395	II	EXPLOSIVE 1.2J	109	None	62	Not Accepted by FedEx Ground
	Rocket motors, liquid fueled	1.3J	UN0396	II	EXPLOSIVE 1.3J	109	None	62	Not Accepted by FedEx Ground
	Rocket motors with hypergolic liquids with or without an expelling charge	1.3L	UN0250	II	EXPLOSIVE 1.3L	109	None	62	Not Accepted by FedEx Ground
	Rocket motors with hypergolic liquids with or without an expelling charge	1.2L	UN0322	II	EXPLOSIVE 1.2L	109	None	62	Not Accepted by FedEx Ground
	Rockets, line-throwing	1.2G	UN0238	II	EXPLOSIVE 1.2G		None	62	Not Accepted by FedEx Ground
	Rockets, line-throwing	1.3G	UN0240	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	Rockets, line-throwing	1.4G	UN0453	II	EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Rockets, liquid fueled with bursting charge	1.1J	UN0397	II	EXPLOSIVE 1.1J		None	62	Not Accepted by FedEx Ground
	Rockets, liquid fueled with bursting charge	1.2J	UN0398	II	EXPLOSIVE 1.2J		None	62	Not Accepted by FedEx Ground
	Rockets, with bursting charge	1.1F	UN0180	II	EXPLOSIVE 1.1F		None	62	Not Accepted by FedEx Ground
	Rockets, with bursting charge	1.1E	UN0181	II	EXPLOSIVE 1.1E		None	62	Not Accepted by FedEx Ground
	Rockets, with bursting charge	1.2E	UN0182	II	EXPLOSIVE 1.2E		None	62	Not Accepted by FedEx Ground
	Rockets, with bursting charge	1.2F	UN0295	II	EXPLOSIVE 1.2F		None	62	Not Accepted by FedEx Ground
	Rockets, with expelling charge	1.2C	UN0436	II	EXPLOSIVE 1.2C		None	62	Not Accepted by FedEx Ground
	Rockets, with expelling charge	1.3C	UN0437	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Rockets, with expelling charge	1.4C	UN0438	II	EXPLOSIVE 1.4C		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Rockets, with inert head	1.3C	UN0183	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Rockets, with inert head	1.2C	UN0502		EXPLOSIVE 1.2C		None	62	Not Accepted by FedEx Ground
	Rosin oil	3	UN1286	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Rosin oil	3	UN1286	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Rubber solution	3	UN1287	II	FLAMMABLE LIQUID	149, IB2, T4, TP1, TP8	150	202	
	Rubber solution	3	UN1287	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Rubber scrap or shoddy, powdered or granulated, not exceeding 840 microns and rubber content exceeding 45%	4.1	UN1345	II	FLAMMABLE SOLID	IB8, IP2, IP4, T3, TP33	151	212	
	Rubidium	4.3	UN1423	I	DANGEROUS WHEN WET	22, A7, A19, IB4, IP1, N34, N40, N45	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Rubidium hydroxide	8	UN2678	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Rubidium hydroxide solution	8	UN2677	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	Rubidium hydroxide solution	8	UN2677	III	CORROSIVE	IB3, T4, TP1	154	203	
	Safety fuse, see Fuse, safety								NA
G	Samples, explosive, other than initiating explosives		UN0190	II	NONE	113	None	62	Not Accepted by FedEx Ground
	Sand acid, see Fluorosilicic acid								NA
	Seed cake, containing vegetable oil solvent extractions and expelled seeds, with not more than 10 percent of oil and when the amount of moisture is higher than 11 percent, with not more than 20 percent of oil and moisture combined	None	UN1386	III	NONE	IB8, IP3, IP7, N7	None	213	Not Accepted by FedEx Ground
I	Seed cake with more than 1.5 percent oil and not more than 11 percent moisture	None	UN1386	III	NONE	IB8, IP3, IP7, N7	None	213	Not Accepted by FedEx Ground
I	Seed cake with not more than 1.5 percent oil and not more than 11 percent moisture	None	UN2217	III	NONE	IB8, IP3, IP7, N7	None	213	Not Accepted by FedEx Ground
	Selenates or Selenites	6.1	UN2630	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Selenic acid	8	UN1905	I	CORROSIVE	IB7, IP1, N34, T6, TP33	None	211	
	Selenium compound, liquid, n.o.s.	6.1	UN3440	I	POISON	T14, TP2, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Selenium compound, liquid, n.o.s.	6.1	UN3440	II	POISON	IIB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Selenium compound, liquid, n.o.s.	6.1	UN3440	III	POISON	IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Selenium compound, solid, n.o.s.	6.1	UN3283	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Selenium compound, solid, n.o.s.	6.1	UN3283	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Selenium compound, solid, n.o.s.	6.1	UN3283	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Selenium disulfide	6.1	UN2657	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Selenium hexafluoride	2.3 (8)	UN2194		POISON GAS, CORROSIVE	1	None	302	Not Accepted by FedEx Ground
	Selenium nitride	Forbidden							Not Accepted by FedEx Ground
	Selenium oxychloride	8 (6.1)	UN2879	I	CORROSIVE, POISON	A3, A6, A7, N34, T10, TP2, TP12, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Self-defense spray, aerosol, see Aerosols, etc</i>								NA
+ A D	Self-defense spray, non-pressurized	9	NA3334	III	CLASS 9	A37	155	203	
G	Self-heating liquid, corrosive, inorganic, n.o.s.	4.2 (8)	UN3188	II	SPONTANEOUSLY COMBUSTIBLE, CORROSIVE	IB2	None	202	Not Accepted by FedEx Ground
G	Self-heating liquid, corrosive, inorganic, n.o.s.	4.2 (8)	UN3188	III	SPONTANEOUSLY COMBUSTIBLE, CORROSIVE	IB2	None	203	Not Accepted by FedEx Ground
G	Self-heating liquid, corrosive, organic, n.o.s.	4.2 (8)	UN3185	II	SPONTANEOUSLY COMBUSTIBLE, CORROSIVE	IB2	None	202	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
G	Self-heating liquid, corrosive, organic, n.o.s.	4.2 (8)	UN3185	III	SPONTANEOUSLY COMBUSTIBLE, CORROSIVE	IB2	None	203	Not Accepted by FedEx Ground
G	Self-heating liquid, inorganic, n.o.s.	4.2	UN3186	II	SPONTANEOUSLY COMBUSTIBLE	IB2	None	202	Not Accepted by FedEx Ground
G	Self-heating liquid, inorganic, n.o.s.	4.2	UN3183	II	SPONTANEOUSLY COMBUSTIBLE	IB2	None	202	Not Accepted by FedEx Ground
G	Self-heating liquid, organic, n.o.s.	4.2	UN3183	III	SPONTANEOUSLY COMBUSTIBLE	IB2	None	203	Not Accepted by FedEx Ground
G	Self-heating liquid, organic, n.o.s.	4.2	UN3186	III	SPONTANEOUSLY COMBUSTIBLE	IB2	None	203	Not Accepted by FedEx Ground
G	Self-heating liquid, toxic, inorganic, n.o.s.	4.2 (6.1)	UN3187	II	SPONTANEOUSLY COMBUSTIBLE, POISON	IB2	None	202	Not Accepted by FedEx Ground
G	Self-heating liquid, toxic, inorganic, n.o.s.	4.2 (6.1)	UN3187	III	SPONTANEOUSLY COMBUSTIBLE, POISON	IB2	None	203	Not Accepted by FedEx Ground
G	Self-heating liquid, toxic, organic, n.o.s.	4.2 (6.1)	UN3184	II	SPONTANEOUSLY COMBUSTIBLE, POISON	IB2	None	202	Not Accepted by FedEx Ground
G	Self-heating liquid, toxic, organic, n.o.s.	4.2 (6.1)	UN3184	III	SPONTANEOUSLY COMBUSTIBLE, POISON	IB2	None	203	Not Accepted by FedEx Ground
G	Self-heating solid, corrosive, inorganic, n.o.s.	4.2 (8)	UN3192	II	SPONTANEOUSLY COMBUSTIBLE, CORROSIVE	IB5, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
G	Self-heating solid, corrosive, inorganic, n.o.s.	4.2 (8)	UN3192	III	SPONTANEOUSLY COMBUSTIBLE, CORROSIVE	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
G	Self-heating solid, corrosive, organic, n.o.s.	4.2 (8)	UN3126	II	SPONTANEOUSLY COMBUSTIBLE, CORROSIVE	IB5, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
G	Self-heating solid, corrosive, organic, n.o.s.	4.2 (8)	UN3126	III	SPONTANEOUSLY COMBUSTIBLE, CORROSIVE	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
G	Self-heating solid, inorganic, n.o.s.	4.2	UN3190	II	SPONTANEOUSLY COMBUSTIBLE	IB6, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
G	Self-heating solid, inorganic, n.o.s.	4.2	UN3190	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
G	Self-heating solid, organic, n.o.s.	4.2	UN3088	II	SPONTANEOUSLY COMBUSTIBLE	IB6, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
G	Self-heating solid, organic, n.o.s.	4.2	UN3088	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
G	Self-heating solid, oxidizing, n.o.s.	4.2 (5.1)	UN3127		SPONTANEOUSLY COMBUSTIBLE, OXIDIZER		None	214	Not Accepted by FedEx Ground
G	Self-heating solid, toxic, inorganic, n.o.s.	4.2 (6.1)	UN3191	II	SPONTANEOUSLY COMBUSTIBLE, POISON	IB5, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
G	Self-heating solid, toxic, inorganic, n.o.s.	4.2 (6.1)	UN3191	III	SPONTANEOUSLY COMBUSTIBLE, POISON	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
G	Self-heating solid, toxic, organic, n.o.s.	4.2 (6.1)	UN3128	II	SPONTANEOUSLY COMBUSTIBLE, POISON	IB5, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
G	Self-heating solid, toxic, organic, n.o.s.	4.2 (6.1)	UN3128	III	SPONTANEOUSLY COMBUSTIBLE, POISON	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
	Self-propelled vehicle, see Engines or Batteries etc								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
G	Self-reactive liquid type B	4.1	UN3221	II	FLAMMABLE SOLID	53	None	224	Not Accepted by FedEx Ground
G	Self-reactive liquid type B, temperature controlled	4.1	UN3231	II	FLAMMABLE SOLID	53	None	224	Not Accepted by FedEx Ground
G	Self-reactive liquid type C	4.1	UN3223	II	FLAMMABLE SOLID		None	224	
G	Self-reactive liquid type C, temperature controlled	4.1	UN3233	II	FLAMMABLE SOLID		None	224	Not Accepted by FedEx Ground
G	Self-reactive liquid type D	4.1	UN3225	II	FLAMMABLE SOLID		None	224	
G	Self-reactive liquid type D, temperature controlled	4.1	UN3235	II	FLAMMABLE SOLID		None	224	Not Accepted by FedEx Ground
G	Self-reactive liquid type E	4.1	UN3227	II	FLAMMABLE SOLID		None	224	
G	Self-reactive liquid type E, temperature controlled	4.1	UN3237	II	FLAMMABLE SOLID		None	224	Not Accepted by FedEx Ground
G	Self-reactive liquid type F	4.1	UN3229	II	FLAMMABLE SOLID		None	224	
G	Self-reactive liquid type F, temperature controlled	4.1	UN3239	II	FLAMMABLE SOLID		None	224	Not Accepted by FedEx Ground
G	Self-reactive solid type B	4.1	UN3222	II	FLAMMABLE SOLID	53	None	224	
G	Self-reactive solid type B, temperature controlled	4.1	UN3232	II	FLAMMABLE SOLID	53	None	224	Not Accepted by FedEx Ground
G	Self-reactive solid type C	4.1	UN3224	II	FLAMMABLE SOLID		None	224	
G	Self-reactive solid type C, temperature controlled	4.1	UN3234	II	FLAMMABLE SOLID		None	224	Not Accepted by FedEx Ground
G	Self-reactive solid type D	4.1	UN3226	II	FLAMMABLE SOLID		None	224	
G	Self-reactive solid type D, temperature controlled	4.1	UN3236	II	FLAMMABLE SOLID		None	224	Not Accepted by FedEx Ground
G	Self-reactive solid type E	4.1	UN3228	II	FLAMMABLE SOLID		None	224	
G	Self-reactive solid type E, temperature controlled	4.1	UN3238	II	FLAMMABLE SOLID		None	224	Not Accepted by FedEx Ground
G	Self-reactive solid type F	4.1	UN3230	II	FLAMMABLE SOLID		None	224	
G	Self-reactive solid type F, temperature controlled	4.1	UN3240	II	FLAMMABLE SOLID		None	224	Not Accepted by FedEx Ground
	Shale oil	3	UN1288	I	FLAMMABLE LIQUID	T11, TP1, TP8, TP27	None	201	
	Shale oil	3	UN1288	II	FLAMMABLE LIQUID	IB2, T4, TP1, TP8	150	202	
	Shale oil	3	UN1288	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Shaped charges, see Charges, shaped, etc								NA
	Signal devices, hand	1.4G	UN0191	II	EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Signal devices, hand	1.4S	UN0373	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Signals, distress, ship	1.1G	UN0194	II	EXPLOSIVE 1.1G		None	62	Not Accepted by FedEx Ground
	Signals, distress, ship	1.3G	UN0195	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	Signals, distress, ship	1.4G	UN0505		EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Signals, distress, ship	1.4S	UN0506		EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Signals, highway, see Signal devices, hand								NA
	Signals, railway track, explosive	1.1G	UN0192	II	EXPLOSIVE 1.1G		None	62	Not Accepted by FedEx Ground
	Signals, railway track, explosive	1.4S	UN0193	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Signals, railway track, explosive	1.3G	UN0492		EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	Signals, railway track, explosive	1.4G	UN0493		EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	<i>Signals, ship distress, water-activated, see Contrivances, water-activated, etc</i>								NA
	Signals, smoke	1.1G	UN0196	II	EXPLOSIVE 1.1G		None	62	Not Accepted by FedEx Ground
	Signals, smoke	1.4G	UN0197	II	EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Signals, smoke	1.2G	UN0313	II	EXPLOSIVE 1.2G		None	62	Not Accepted by FedEx Ground
	Signals, smoke	1.3G	UN0487	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	Signals, smoke	1.4S	UN0507		EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Silane	2.1	UN2203		FLAMMABLE GAS		None	302	
	<i>Silicofluoric acid, see Fluorosilicic acid</i>								NA
	<i>Silicon chloride, see Silicon tetrachloride</i>								NA
	Silicon powder, amorphous	4.1	UN1346	III	FLAMMABLE SOLID	A1, IB8, IP3, T1, TP33	None	213	
	Silicon tetrachloride	8	UN1818	II	CORROSIVE	A3, A6, B2, B6, IB2, T7, TP2, TP7	154	202	
	Silicon tetrafluoride	2.3 (8)	UN1859		POISON GAS, CORROSIVE	2	None	302	Not Accepted by FedEx Ground
	<i>Silver acetylide (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Silver arsenite	6.1	UN1683	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Silver azide (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Silver chlorite (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Silver cyanide	6.1	UN1684	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	<i>Silver fulminate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Silver nitrate	5.1	UN1493	II	OXIDIZER	IB8, IP4, T3, TP33	152	212	Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	<i>Silver oxalate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Silver picrate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Silver picrate, wetted with not less than 30 percent water, by mass	4.1	UN1347	I	FLAMMABLE SOLID	23	None	211	
	Sludge, acid	8	UN1906	II	CORROSIVE	A3, A7, B2, IB2, N34, T8, TP2, TP12, TP28	None	202	
D	Smokeless powder for small arms (100 pounds or less)	4.1	NA3178	I	FLAMMABLE SOLID	16	None	171	FedEx Ground cannot transport more than 100 lb. (45.4kg) per motor vehicle
	Soda lime with more than 4 percent sodium hydroxide	8	UN1907	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Sodium	4.3	UN1428	I	DANGEROUS WHEN WET	A7, A8, A19, A20, B9, B48, B68, IB4, IP1, N34, T9, TP7, TP33, TP46	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
A	Sodium aluminate, solid	8	UN2812	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Sodium aluminate, solution	8	UN1819	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	Sodium aluminate, solution	8	UN1819	III	CORROSIVE	IB3, T4, TP1	154	203	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Sodium aluminum hydride	4.3	UN2835	II	DANGEROUS WHEN WET	A8, A19, A20, IB4, T3, TP33	151	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium ammonium vanadate	6.1	UN2863	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium arsenilate	6.1	UN2473	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium arsenate	6.1	UN1685	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	Sodium arsenite, aqueous solutions	6.1	UN1686	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	Sodium arsenite, aqueous solutions	6.1	UN1686	III	POISON	IB3, T4, TP2	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	Sodium arsenite, solid	6.1	UN2027	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 1 lb. (0.454kg) per package- see RQ Table
	Sodium azide	6.1	UN1687	II	POISON	IB8, IP2, IP4	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Sodium bifluoride, see Sodium hydrogendifluoride</i>								NA
	<i>Sodium bisulfite, solution, see Bisulfites, aqueous solutions, n.o.s.</i>								NA
	Sodium borohydride	4.3	UN1426	I	DANGEROUS WHEN WET	N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium borohydride and sodium hydroxide solution, with not more than 12 percent sodium borohydride and not more than 40 percent sodium hydroxide by mass	8	UN3320	II	CORROSIVE	B2, IB2, N34, T7, TP2	154	202	
	Sodium borohydride and sodium hydroxide solution, with not more than 12 percent sodium borohydride and not more than 40 percent sodium hydroxide by mass	8	UN3320	III	CORROSIVE	B2, IB3, N34, T4, TP2	154	203	
	Sodium bromate	5.1	UN1494	II	OXIDIZER	IB8, IP4, T3, TP33	152	212	
	Sodium cacodylate	6.1	UN1688	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium carbonate peroxyhydrate	5.1	UN3378	II	OXIDIZER	IB8, IP2, IP4, T3, TP33	152	212	
	Sodium carbonate peroxyhydrate	5.1	UN3378	III	OXIDIZER	IB8, IP3, T1, TP33	152	213	
	Sodium chlorate	5.1	UN1495	II	OXIDIZER	A9, IB8, IP4, N34, T3, TP33	152	212	
	Sodium chlorate, aqueous solution	5.1	UN2428	II	OXIDIZER	A2, IB2, T4, TP1	152	202	
	Sodium chlorate, aqueous solution	5.1	UN2428	III	OXIDIZER	A2, IB2, T4, TP1	152	203	
	<i>Sodium chlorate mixed with dinitrotoluene, see Explosive blasting, type C</i>								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Sodium chlorite	5.1	UN1496	II	OXIDIZER	A9, IB8, IP2, IP4, N34, T3, TP33	None	212	
	Sodium chloroacetate	6.1	UN2659	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium cuprocyanide, solid	6.1	UN2316	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium cuprocyanide, solution	6.1	UN2317	I	POISON	T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium cyanide, solid	6.1	UN1689	I	POISON	B69, B77, IB7, N74, N75, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium cyanide solution	6.1	UN3414	I	POISON	B69, B77, N74, N75, T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium cyanide solution	6.1	UN3414	II	POISON	B69, B77, IB2, N74, N75, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium cyanide solution	6.1	UN3414	III	POISON	B69, B77, IB3, N74, N75, T7, TP2, TP13, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Sodium dichloroisocyanurate or Sodium dichloro-s-triazinetrione, see Dichloroisocyanuric acid etc</i>								NA
	Sodium dinitro-o-cresolate, dry or wetted with less than 15 percent water, by mass	1.3C	UN0234	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Sodium dinitro-o-cresolate, wetted with not less than 10% water, by mass	4.1	UN3369	I	FLAMMABLE SOLID	162, A8, A19, N41, N84	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium dinitro-o-cresolate, wetted with not less than 15 percent water, by mass	4.1 (6.1)	UN1348	I	FLAMMABLE SOLID, POISON	23, A8, A19, A20, N41	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium dithionite or Sodium hydrosulfite	4.2	UN1384	II	SPONTANEOUSLY COMBUSTIBLE	A19, A20, IB6, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
	Sodium fluoride, solid	6.1	UN1690	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium fluoride solution	6.1	UN3415	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium fluoroacetate	6.1	UN2629	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium fluorosilicate	6.1	UN2674	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Sodium hydrate, see Sodium hydroxide, solid</i>								NA
	Sodium hydride	4.3	UN1427	I	DANGEROUS WHEN WET	A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium hydrogendifluoride	8	UN2439	II	CORROSIVE	IB8, IP2, IP4, N3, N34, T3, TP33	154	212	
	Sodium hydrosulfide, with less than 25 percent water of crystallization	4.2	UN2318	II	SPONTANEOUSLY COMBUSTIBLE	A7, A19, A20, IB6, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
	Sodium hydrosulfide with not less than 25 percent water of crystallization	8	UN2949	II	CORROSIVE	A7, IB8, IP2, IP4, T7, TP2	154	212	
	<i>Sodium hydrosulfite, see Sodium dithionite</i>								NA
	Sodium hydroxide, solid	8	UN1823	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Sodium hydroxide solution	8	UN1824	II	CORROSIVE	B2, IB2, N34, T7, TP2	154	202	
	Sodium hydroxide solution	8	UN1824	III	CORROSIVE	IB3, N34, T4, TP1	154	203	
	<i>Sodium hypochlorite, solution, see Hypochlorite solutions etc</i>								NA
	<i>Sodium metal, liquid alloy, see Alkali metal alloys, liquid, n.o.s.</i>								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Sodium methylate	4.2 (8)	UN1431	II	SPONTANEOUSLY COMBUSTIBLE, CORROSIVE	A7, A19, IB5, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
	Sodium methylate solutions in alcohol	3 (8)	UN1289	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1, TP8	150	202	
	Sodium methylate solutions in alcohol	3 (8)	UN1289	III	FLAMMABLE LIQUID, CORROSIVE	B1, IB3, T4, TP1	150	203	
	Sodium monoxide	8	UN1825	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Sodium nitrate	5.1	UN1498	III	OXIDIZER	A1, A29, IB8, IP3, T1, TP33	152	213	
	Sodium nitrate and potassium nitrate mixtures	5.1	UN1499	III	OXIDIZER	A1, A29, IB8, IP3, T1, TP33	152	213	
	Sodium nitrite	5.1 (6.1)	UN1500	III	OXIDIZER, POISON	A1, A29, IB8, IP3, T1, TP33	152	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium pentachlorophenate	6.1	UN2567	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium perborate monohydrate	5.1	UN3377	III	OXIDIZER	IB8, IP3, T1, TP33	152	213	
	Sodium perchlorate	5.1	UN1502	II	OXIDIZER	IB6, IP2, T3, TP33	152	212	
	Sodium permanganate	5.1	UN1503	II	OXIDIZER	IB6, IP2, T3, TP33	152	212	
	Sodium peroxide	5.1	UN1504	I	OXIDIZER	A20, IB5, IP1, N34	None	211	
	Sodium peroxoborate, anhydrous	5.1	UN3247	II	OXIDIZER	IB8, IP4, T3, TP33	152	212	
	Sodium persulfate	5.1	UN1505	III	OXIDIZER	A1, IB8, IP3, T1, TP33	152	213	
	Sodium phosphide	4.3 (6.1)	UN1432	I	DANGEROUS WHEN WET, POISON	A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sodium picramate, dry or wetted with less than 20 percent water, by mass	1.3C	UN0235	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Sodium picramate, wetted with not less than 20 percent water, by mass	4.1	UN1349	I	FLAMMABLE SOLID	23, A8, A19, N41	None	211	
	<i>Sodium picryl peroxide</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Sodium potassium alloys, see Potassium sodium alloys</i>								NA
	<i>Sodium selenate, see Selenates or Selenites</i>								NA
	Sodium sulfide, anhydrous or Sodium sulfide with less than 30 percent water of crystallization	4.2	UN1385	II	SPONTANEOUSLY COMBUSTIBLE	A19, A20, IB6, IP2, N34, T3, TP33	None	212	Not Accepted by FedEx Ground
	Sodium sulfide, hydrated with not less than 30 percent water	8	UN1849	II	CORROSIVE	IB8, IP2, IP4, T3, TP33	154	212	
	Sodium superoxide	5.1	UN2547	I	OXIDIZER	A20, IB6, IP1, N34	None	211	
	<i>Sodium tetranitride</i>	Forbidden							Not Accepted by FedEx Ground
G	Solids containing corrosive liquid, n.o.s.	8	UN3244	II	CORROSIVE	49, IB5, T3, TP33	154	212	
G	Solids containing flammable liquid, n.o.s.	4.1	UN3175	II	FLAMMABLE SOLID	47, IB6, IP2, T3, TP33	151	212	
G	Solids containing toxic liquid, n.o.s.	6.1	UN3243	II	POISON	48, IB2, T2, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sounding devices, explosive	1.2F	UN0204	II	EXPLOSIVE 1.2F		None	62	Not Accepted by FedEx Ground
	Sounding devices, explosive	1.1F	UN0296	II	EXPLOSIVE 1.1F		None	62	Not Accepted by FedEx Ground
	Sounding devices, explosive	1.1D	UN0374	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Sounding devices, explosive	1.2D	UN0375	II	EXPLOSIVE 1.2D		None	62	Not Accepted by FedEx Ground
	<i>Spirits of salt, see Hydrochloric acid</i>								NA
	<i>Squibs, see Igniters etc</i>								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Stannic chloride, anhydrous	8	UN1827	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	Stannic chloride pentahydrate	8	UN2440	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Stannic phosphide	4.3 (6.1)	UN1433	I	DANGEROUS WHEN WET, POISON	A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Steel swarf, see Ferrous metal borings, etc</i>								NA
	Stibine	2.3 (2.1)	UN2676		POISON GAS, FLAMMABLE GAS	1	None	304	Not Accepted by FedEx Ground
	<i>Storage batteries, wet, see Batteries, wet etc</i>								NA
	Strontium arsenite	6.1	UN1691	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Strontium chlorate	5.1	UN1506	II	OXIDIZER	A1, A9, IB8, IP2, IP4, N34, T3, TP33	152	212	
	Strontium nitrate	5.1	UN1507	III	OXIDIZER	A1, A29, IB8, IP3, T1, TP33	152	213	
	Strontium perchlorate	5.1	UN1508	II	OXIDIZER	IB6, IP2, T3, TP33	152	212	
	Strontium peroxide	5.1	UN1509	II	OXIDIZER	IB6, IP2, T3, TP33	152	212	
	Strontium phosphide	4.3 (6.1)	UN2013	I	DANGEROUS WHEN WET, POISON	A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Strychnine or Strychnine salts	6.1	UN1692	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	<i>Styphnic acid, see Trinitroresorcinol, etc</i>								NA
	Styrene monomer, stabilized	3	UN2055	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
G	Substances, explosive, n.o.s	1.1L	UN0357	II	EXPLOSIVE 1.1L		None	62	Not Accepted by FedEx Ground
G	Substances, explosive, n.o.s	1.2L	UN0358	II	EXPLOSIVE 1.2L		None	62	Not Accepted by FedEx Ground
G	Substances, explosive, n.o.s	1.3L	UN0359	II	EXPLOSIVE 1.3L		None	62	Not Accepted by FedEx Ground
G	Substances, explosive, n.o.s	1.1A	UN0473	II	EXPLOSIVE 1.1A	111	None	62	Not Accepted by FedEx Ground
G	Substances, explosive, n.o.s	1.1C	UN0474	II	EXPLOSIVE 1.1C		None	62	Not Accepted by FedEx Ground
G	Substances, explosive, n.o.s	1.1D	UN0475	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
G	Substances, explosive, n.o.s	1.1G	UN0476	II	EXPLOSIVE 1.1G		None	62	Not Accepted by FedEx Ground
G	Substances, explosive, n.o.s	1.3C	UN0477	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
G	Substances, explosive, n.o.s	1.3G	UN0478	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
G	Substances, explosive, n.o.s	1.4C	UN0479	II	EXPLOSIVE 1.4C		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
G	Substances, explosive, n.o.s	1.4D	UN0480	II	EXPLOSIVE 1.4D		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
G	Substances, explosive, n.o.s	1.4S	UN0481	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
G	Substances, explosive, n.o.s	1.4G	UN0485	II	EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
G	Substances, explosive, very insensitive, n.o.s. or Substances, EVI, n.o.s.	1.5D	UN0482	II	EXPLOSIVE 1.5D		None	62	Not Accepted by FedEx Ground
	Substituted nitrophenol pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2780	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Substituted nitrophenol pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2780	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Substituted nitrophenol pesticides, liquid, toxic	6.1	UN3014	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Substituted nitrophenol pesticides, liquid, toxic	6.1	UN3014	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Substituted nitrophenol pesticides, liquid, toxic	6.1	UN3014	III	POISON	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Substituted nitrophenol pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3013	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Substituted nitrophenol pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3013	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Substituted nitrophenol pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3013	III	POISON, FLAMMABLE LIQUID	B1, IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Substituted nitrophenol pesticides, solid, toxic	6.1	UN2779	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Substituted nitrophenol pesticides, solid, toxic	6.1	UN2779	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Substituted nitrophenol pesticides, solid, toxic	6.1	UN2779	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Sucrose octanitrate (dry)	Forbidden							Not Accepted by FedEx Ground
	Sulfamic acid	8	UN2967	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
D	Sulfur	9	NA1350	III	CLASS 9	30, IB8, IP2	None	None	
I	Sulfur	4.1	UN1350	III	FLAMMABLE SOLID	30, IB8, IP3, T1, TP33	None	None	Not Accepted by FedEx Ground
	Sulfur and chlorate, loose mixtures of	Forbidden							Not Accepted by FedEx Ground
	Sulfur chlorides	8	UN1828	I	CORROSIVE	5, A3, A7, A10, B10, B77, N34, T20, TP2, TP12	None	201	
	Sulfur dichloride, see Sulfur chlorides								NA
	Sulfur dioxide	2.3 (8)	UN1079		POISON GAS, CORROSIVE	3, B14, T50, TP19	None	304	Not Accepted by FedEx Ground
	Sulfur dioxide solution, see Sulfurous acid								NA
	Sulfur hexafluoride	2.2	UN1080		NONFLAMMABLE GAS		306	304	
D	Sulfur, molten	9	NA2448	III	CLASS 9	30, IB3, T1, TP3	None	213	Not Accepted by FedEx Ground
I	Sulfur, molten	4.1	UN2448	III	FLAMMABLE SOLID	30, IB1, T1, TP3	None	213	Not Accepted by FedEx Ground
	Sulfur tetrafluoride	2.3 (8)	UN2418		POISON GAS, CORROSIVE	1	None	302	Not Accepted by FedEx Ground
	Sulfur trioxide, stabilized	8 (6.1)	UN1829	I	CORROSIVE, POISON	2, B9, B14, B32, B49, B74, B77, N34, T20, TP4, TP12, TP13, TP25, TP26, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Sulfuretted hydrogen, see Hydrogen sulfide								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Sulfuric acid, fuming with less than 30 percent free sulfur trioxide	8	UN1831	I	CORROSIVE	A3, A7, B84, N34, T20, TP2, TP12, TP13	None	201	Not Accepted by FedEx Ground
	Sulfuric acid, fuming with 30 percent or more free sulfur trioxide	8 (6.1)	UN1831	I	CORROSIVE, POISON	2, B9, B14, B32, B74, B77, B84, N34, T20, TP2, TP12, TP13	None	227	Not Accepted by FedEx Ground
	Sulfuric acid, spent	8	UN1832	II	CORROSIVE	A3, A7, B2, B83, B84, IB2, N34, T8, TP2, TP12	None	202	
	Sulfuric acid with more than 51 percent acid	8	UN1830	II	CORROSIVE	A3, A7, B3, B83, B84, IB2, N34, T8, TP2, TP12	154	202	
	Sulfuric acid with not more than 51% acid	8	UN2796	II	CORROSIVE	A3, A7, B2, B15, IB2, N6, N34, T8, TP2, TP12	154	202	
	Sulfuric and hydrofluoric acid mixtures, see Hydrofluoric and sulfuric acid mixtures								NA
	Sulfuric anhydride, see Sulfur trioxide, stabilized								NA
	Sulfurous acid	8	UN1833	II	CORROSIVE	B3, IB2, T7, TP2	154	202	
					CORROSIVE, POISON	1, B6, B9, B10, B14, B30, B74, B77, N34, T22, TP2, TP12, TP38, TP44	None	226	Not Accepted by FedEx Ground
+	Sulfuryl chloride	8 (6.1)	UN1834	I			None	226	Not Accepted by FedEx Ground
	Sulfuryl fluoride	2.3	UN2191		POISON GAS	4	None	304	Not Accepted by FedEx Ground
	Tars, liquid including road asphalt and oils, bitumen and cut backs	3	UN1999	II	FLAMMABLE LIQUID	149, B13, IB2, T3, TP3, TP29	150	202	
	Tars, liquid including road asphalt and oils, bitumen and cut backs	3	UN1999	III	FLAMMABLE LIQUID	B1, B13, IB3, T1, TP3	150	203	
	Tear gas candles	6.1 (4.1)	UN1700	II	POISON, FLAMMABLE SOLID		None	340	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Tear gas cartridges, see Ammunition, tear-producing, etc</i>								NA
D	Tear gas devices with more than 2 percent tear gas substances, by mass	6.1	NA1693	I	POISON		None	340	Accepted only when packaged under applicable special permit or 49CFR 173.13
D	Tear gas devices with more than 2 percent tear gas substances, by mass	6.1	NA1693	II	POISON		None	340	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Tear gas devices, with not more than 2 percent tear gas substances, by mass, see Aerosols, etc</i>								NA
	<i>Tear gas grenades, see Tear gas candles</i>								NA
G	Tear gas substances, liquid, n.o.s.	6.1	UN1693	I	POISON		None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Tear gas substances, liquid, n.o.s.	6.1	UN1693	II	POISON	IB2	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Tear gas substance, solid, n.o.s.	6.1	UN3448	I	POISON	T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Tear gas substance, solid, n.o.s.	6.1	UN3448	II	POISON	IB8, IP2, IP4, T3, TP33	None	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Tellurium compound, n.o.s.	6.1	UN3284	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Tellurium compound, n.o.s.	6.1	UN3284	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Tellurium compound, n.o.s.	6.1	UN3284	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Tellurium hexafluoride	2.3 (8)	UN2195		POISON GAS, CORROSIVE	1	None	302	Not Accepted by FedEx Ground
	Terpene hydrocarbons, n.o.s.	3	UN2319	III	FLAMMABLE LIQUID	B1, IB3, T4, TP1, TP29	150	203	
	Terpinolene	3	UN2541	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	<i>Tetraazido benzene quinone</i>	Forbidden							Not Accepted by FedEx Ground
	Tetrabromoethane	6.1	UN2504	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	1,1,2,2-Tetrachloroethane	6.1	UN1702	II	POISON	IB2, N36, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Tetrachloroethylene	6.1	UN1897	III	POISON	IB3, N36, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Tetraethyl dithiopyrophosphate	6.1	UN1704	II	POISON	IB2, T7, TP2	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Tetraethyl silicate	3	UN1292	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>Tetraethylammonium perchlorate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Tetraethylenepentamine	8	UN2320	III	CORROSIVE	IB3, T4, TP1	154	203	
	1,1,1,2-Tetrafluoroethane or Refrigerant gas R 134a	2.2	UN3159		NONFLAMMABLE GAS	T50	306	304	
	Tetrafluoroethylene, stabilized	2.1	UN1081		FLAMMABLE GAS		306	304	
	Tetrafluoromethane or Refrigerant gas R 14	2.2	UN1982		NONFLAMMABLE GAS		None	302	
	1,2,3,6-Tetrahydrobenzaldehyde	3	UN2498	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Tetrahydrofuran	3	UN2056	II	FLAMMABLE LIQUID	IB2, T4, TP1	None	202	
	Tetrahydrofurfurylamine	3	UN2943	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Tetrahydrophthalic anhydrides with more than 0.05 percent of maleic anhydride	8	UN2698	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	1,2,3,6-Tetrahydropyridine	3	UN2410	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Tetrahydrothiophene	3	UN2412	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Tetramethylammonium hydroxide, solid	8	UN3423	II	CORROSIVE	B2, IB8, IP2, IP4, T3, TP33	154	213	
	Tetramethylammonium hydroxide solution	8	UN1835	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	Tetramethylammonium hydroxide solution	8	UN1835	III	CORROSIVE	B2, IB3, T7, TP2	154	203	
	<i>Tetramethylene diperoxide dicarbamide</i>	Forbidden							Not Accepted by FedEx Ground
	Tetramethylsilane	3	UN2749	I	FLAMMABLE LIQUID	A7, T14, TP2	None	201	
	<i>Tetranitro diglycerin</i>	Forbidden							Not Accepted by FedEx Ground
	Tetranitroaniline	1.1D	UN0207	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
+	Tetranitromethane	5.1 (6.1)	UN1510	I	OXIDIZER, POISON	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP44	None	227	Not Accepted by FedEx Ground
	<i>2,3,4,6-Tetranitrophenol</i>	Forbidden							Not Accepted by FedEx Ground
	<i>2,3,4,6-Tetranitrophenyl methyl nitramine</i>	Forbidden							Not Accepted by FedEx Ground
	<i>2,3,4,6-Tetranitrophenylnitramine</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Tetranitrosorcinol (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>2,3,5,6-Tetranitroso-1,4-dinitrobenzene</i>	Forbidden							Not Accepted by FedEx Ground
	<i>2,3,5,6-Tetranitroso nitrobenzene (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Tetrapropylorthotitanate	3	UN2413	III	FLAMMABLE LIQUID	B1, IB3, T4, TP1	150	203	
	Tetrazene, see Guanyl nitrosaminoguanyltetrazene								NA
	<i>Tetrazine (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Tetrazol-1-acetic acid	1.4C	UN0407	II	EXPLOSIVE 1.4C		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	1H-Tetrazole	1.1D	UN0504		EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	<i>Tetrazolyl azide (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Tetryl, see Trinitrophenylmethylnitramine								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
A W	Textile waste, wet	4.2	UN1857	III	SPONTANEOUSLY COMBUSTIBLE		151	213	Not Accepted by FedEx Ground
	Thallium chlorate	5.1 (6.1)	UN2573	II	OXIDIZER, POISON	IB6, IP2, T3, TP33	152	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thallium compounds, n.o.s.	6.1	UN1707	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thallium nitrate	6.1 (5.1)	UN2727	II	POISON, OXIDIZER	IB6, IP2, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	4-Thiapentanal	6.1	UN2785	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thioacetic acid	3	UN2436	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Thiocarbamate pesticide, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2772	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thiocarbamate pesticide, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2772	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thiocarbamate pesticide, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3005	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thiocarbamate pesticide, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3005	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thiocarbamate pesticide, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN3005	III	POISON, FLAMMABLE LIQUID	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thiocarbamate pesticide, liquid, toxic	6.1	UN3006	I	POISON	T14, TP2, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thiocarbamate pesticide, liquid, toxic	6.1	UN3006	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thiocarbamate pesticide, liquid, toxic	6.1	UN3006	III	POISON	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thiocarbamate pesticides, solid, toxic	6.1	UN2771	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thiocarbamate pesticides, solid, toxic	6.1	UN2771	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thiocarbamate pesticides, solid, toxic	6.1	UN2771	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thiocarbonylchloride, see Thiophosgene								NA
	Thioglycol	6.1	UN2966	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thioglycolic acid	8	UN1940	II	CORROSIVE	A7, B2, IB2, N34, T7, TP2	154	202	
	Thiolactic acid	6.1	UN2936	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Thionyl chloride	8	UN1836	I	CORROSIVE	B6, B10, N34, T10, TP2, TP12, TP13	None	201	
	Thiophene	3	UN2414	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
+	Thiophosgene	6.1	UN2474	II	POISON	2, B9, B14, B32, B74, N33, N34, T20, TP2, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Thiophosphoryl chloride	8	UN1837	II	CORROSIVE	A3, A7, B2, B8, B25, IB2, N34, T7, TP2	None	202	
	Thiourea dioxide	4.2	UN3341	II	SPONTANEOUSLY COMBUSTIBLE	IB6, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
	Thiourea dioxide	4.2	UN3341	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	<i>Tin chloride, fuming, see Stannic chloride, anhydrous</i>								NA
	<i>Tin perchloride or Tin tetrachloride, see Stannic chloride, anhydrous</i>								NA
	Tinctures, medicinal	3	UN1293	II	FLAMMABLE LIQUID	IB2, T4, TP1, TP8	150	202	
	Tinctures, medicinal	3	UN1293	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>Tinning flux, see Zinc chloride</i>								NA
	Tires and tire assemblies, see Air, compressed or Nitrogen, compressed								NA
	Titanium disulphide	4.2	UN3174	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
	Titanium hydride	4.1	UN1871	II	FLAMMABLE SOLID	A19, A20, IB4, N34, T3, TP33	None	212	
	Titanium powder, dry	4.2	UN2546	I	SPONTANEOUSLY COMBUSTIBLE		None	211	Not Accepted by FedEx Ground
	Titanium powder, dry	4.2	UN2546	II	SPONTANEOUSLY COMBUSTIBLE	A19, A20, IB6, IP2, N5, N34, T3, TP33	None	212	Not Accepted by FedEx Ground
	Titanium powder, dry	4.2	UN2546	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
	Titanium powder, wetted with not less than 25 percent water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns	4.1	UN1352	II	FLAMMABLE SOLID	A19, A20, IB6, IP2, N34, T3, TP33	None	212	
	Titanium sponge granules or Titanium sponge powders	4.1	UN2878	III	FLAMMABLE SOLID	A1, IB8, IP3, T1, TP33	None	213	
+	Titanium tetrachloride	8 (6.1)	UN1838	II	CORROSIVE, POISON	2, B7, B9, B14, B32, B74, B77, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Titanium trichloride mixtures	8	UN2869	II	CORROSIVE	A7, IB8, IP2, IP4, N34, T3, TP33	154	212	
	Titanium trichloride mixtures	8	UN2869	III	CORROSIVE	A7, IB8, IP3, N34, T1, TP33	154	213	
	Titanium trichloride, pyrophoric or Titanium trichloride mixtures, pyrophoric	4.2 (8)	UN2441	I	SPONTANEOUSLY COMBUSTIBLE, CORROSIVE	N34	None	181	Not Accepted by FedEx Ground
	<i>TNT mixed with aluminum, see Tritonal</i>								NA
	<i>TNT, see Trinitrotoluene, etc</i>								NA
	Toluene	3	UN1294	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
+	Toluene diisocyanate	6.1	UN2078	II	POISON	IB2, T7, TP2, TP13	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Toluene sulfonic acid, see Alkyl, or Aryl sulfonic acid etc</i>								NA
+	Toluidines, liquid	6.1	UN1708	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Toluidines, solid	6.1	UN3451	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2,4-Toluylenediamine, solid or 2,4-Toluenediamine, solid	6.1	UN1709	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	2,4-Toluylenediamine solution or 2,4-Toluenediamine solution	6.1	UN3418	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Torpedoes, liquid fueled, with inert head	1.3J	UN0450	II	EXPLOSIVE 1.3J			62	Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Torpedoes, liquid fueled, with or without bursting charge	1.1J	UN0449	II	EXPLOSIVE 1.1J			62	Not Accepted by FedEx Ground
	Torpedoes with bursting charge	1.1E	UN0329	II	EXPLOSIVE 1.1E			62	Not Accepted by FedEx Ground
	Torpedoes with bursting charge	1.1F	UN0330	II	EXPLOSIVE 1.1F			62	Not Accepted by FedEx Ground
	Torpedoes with bursting charge	1.1D	UN0451	II	EXPLOSIVE 1.1D			62	Not Accepted by FedEx Ground
G	Toxic by inhalation liquid, n.o.s. with an inhalation toxicity lower than or equal to 200 ml/m³ and saturated vapor concentration greater than or equal to 500 LC50	6.1	UN3381	I	POISON	1, B9, B14, B30, B72, T22, TP2, TP13, TP27, TP38, TP44	None	226	Not Accepted by FedEx Ground
G	Toxic by inhalation liquid, n.o.s. with an inhalation toxicity lower than or equal to 1000ml/m³ and saturated vapor concentration greater than or equal to 10 LC50	6.1	UN3382	I	POISON	2, B9, B14, B32, B74, T20, TP2, TP13, TP27, TP38, TP45	None	227	Not Accepted by FedEx Ground
G	Toxic by inhalation liquid, flammable, n.o.s. with an inhalation toxicity lower than or equal to 200 ml/m³ and saturated vapor concentration greater than or equal to 500 LC50	6.1 (3)	UN3383	I	POISON, FLAMMABLE LIQUID	1, B9, B14, B30, B72, T22, TP2, TP13, TP27, TP38, TP44	None	226	Not Accepted by FedEx Ground
G	Toxic by inhalation liquid, flammable, n.o.s. with an inhalation toxicity lower than or equal to 1000 ml/m³ and saturated vapor concentration greater than or equal to 10 LC50	6.1 (3)	UN3384	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, T20, TP2, TP13, TP27, TP38, TP45	None	227	Not Accepted by FedEx Ground
G	Toxic by inhalation liquid, water-reactive, n.o.s. with an inhalation toxicity lower than or equal to 200 ml/m³ and saturated vapor concentration greater than or equal to 500 LC50	6.1 (4.3)	UN3385	I	POISON, DANGEROUS WHEN WET	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	Not Accepted by FedEx Ground
G	Toxic by inhalation liquid, water-reactive, n.o.s. with an inhalation toxicity lower than or equal to 1000 ml/m³ and saturated vapor concentration greater than or equal to 10 LC50	6.1 (4.3)	UN3386	I	POISON, DANGEROUS WHEN WET	2, B9, B14, B32, B74, T20, TP2, TP13, TP38, TP44	None	227	Not Accepted by FedEx Ground
G	Toxic by inhalation liquid, oxidizing, n.o.s. with an inhalation toxicity lower than or equal to 200 ml/m³ and saturated vapor concentration greater than or equal to 500 LC50	6.1 (5.1)	UN3387	I	POISON, OXIDIZER	1, B9, B14, B30, B72, T22, TP2, TP13, TP38, TP44	None	226	Not Accepted by FedEx Ground
G	Toxic by inhalation liquid, oxidizing, n.o.s. with an inhalation toxicity lower than or equal to 1000 ml/m³ and saturated vapor concentration greater than or equal to 10 LC50	6.1 (5.1)	UN3388	I	POISON, OXIDIZER	2, B9, B14, B32, T20, TP2, TP13, TP38, TP44	None	227	Not Accepted by FedEx Ground
G	Toxic by inhalation liquid, corrosive, n.o.s. with an inhalation toxicity lower than or equal to 200 ml/m³ and saturated vapor concentration greater than or equal to 500 LC50	6.1 (8)	UN3389	I	POISON, CORROSIVE	1, B9, B14, B30, B72, T22, TP2, TP13, TP27, TP38, TP44	None	226	Not Accepted by FedEx Ground
G	Toxic by inhalation liquid, corrosive, n.o.s. with an inhalation toxicity lower than or equal to 1000 ml/m³ and saturated vapor concentration greater than or equal to 10 LC50	6.1 (8)	UN3390	I	POISON, CORROSIVE	2, B9, B14, B32, B74, T20, TP2, TP13, TP27, TP38, TP45	None	227	Not Accepted by FedEx Ground
G	Toxic liquid, corrosive, inorganic, n.o.s.	6.1 (8)	UN3289	I	POISON, CORROSIVE	T14, TP2, TP13, TP27	None	201	Not Accepted by FedEx Ground
G	Toxic liquid, corrosive, inorganic, n.o.s.	6.1 (8)	UN3289	II	POISON, CORROSIVE	IB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic liquid, inorganic, n.o.s.	6.1	UN3287	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic liquid, inorganic, n.o.s.	6.1	UN3287	II	POISON	IB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
G	Toxic liquid, inorganic, n.o.s.	6.1	UN3287	III	POISON	IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic liquids, corrosive, organic, n.o.s.	6.1 (8)	UN2927	I	POISON, CORROSIVE	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic liquids, corrosive, organic, n.o.s.	6.1 (8)	UN2927	II	POISON, CORROSIVE	IB2, T11, TP2, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic liquids, flammable, organic, n.o.s.	6.1 (3)	UN2929	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic liquids, flammable, organic, n.o.s.	6.1 (3)	UN2929	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic, liquids, organic, n.o.s.	6.1	UN2810	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic, liquids, organic, n.o.s.	6.1	UN2810	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic, liquids, organic, n.o.s.	6.1	UN2810	III	POISON	IB3, T7, TP1, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic liquids, oxidizing, n.o.s.	6.1 (5.1)	UN3122	I	POISON, OXIDIZER	A4	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic liquids, oxidizing, n.o.s.	6.1 (5.1)	UN3122	II	POISON, OXIDIZER	IB2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic liquids, water-reactive, n.o.s.	6.1 (4.3)	UN3123	I	POISON, DANGEROUS WHEN WET	A4	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic liquids, water-reactive, n.o.s.	6.1 (4.3)	UN3123	II	POISON, DANGEROUS WHEN WET	IB2	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solid, corrosive, inorganic, n.o.s.	6.1 (8)	UN3290	I	POISON, CORROSIVE	IB7, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solid, corrosive, inorganic, n.o.s.	6.1 (8)	UN3290	II	POISON, CORROSIVE	IB6, IP2, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solid, inorganic, n.o.s.	6.1	UN3288	I	POISON	IB7, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solid, inorganic, n.o.s.	6.1	UN3288	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solid, inorganic, n.o.s.	6.1	UN3288	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solids, corrosive, organic, n.o.s.	6.1 (8)	UN2928	I	POISON, CORROSIVE	IB7, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solids, corrosive, organic, n.o.s.	6.1 (8)	UN2928	II	POISON, CORROSIVE	IB6, IP2, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solids, flammable, organic, n.o.s.	6.1 (4.1)	UN2930	I	POISON, FLAMMABLE SOLID	IB6, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solids, flammable, organic, n.o.s.	6.1 (4.1)	UN2930	II	POISON, FLAMMABLE SOLID	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solids, organic, n.o.s.	6.1	UN2811	I	POISON	IB7, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solids, organic, n.o.s.	6.1	UN2811	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solids, organic, n.o.s.	6.1	UN2811	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solids, oxidizing, n.o.s.	6.1 (5.1)	UN3086	I	POISON, OXIDIZER	T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solids, oxidizing, n.o.s.	6.1 (5.1)	UN3086	II	POISON, OXIDIZER	IB6, IP2, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
G	Toxic solids, self-heating, n.o.s.	6.1 (4.2)	UN3124	I	POISON, SPONTANEOUSLY COMBUSTIBLE	A5, T6, TP33	None	211	Not Accepted by FedEx Ground
G	Toxic solids, self-heating, n.o.s.	6.1 (4.2)	UN3124	II	POISON, SPONTANEOUSLY COMBUSTIBLE	IB6, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
G	Toxic solids, water-reactive, n.o.s.	6.1 (4.3)	UN3125	I	POISON, DANGEROUS WHEN WET	A5, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxic solids, water-reactive, n.o.s.	6.1 (4.3)	UN3125	II	POISON, DANGEROUS WHEN WET	IB6, IP2, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxins, extracted from living sources, liquid, n.o.s.	6.1	UN3172	I	POISON	141	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxins, extracted from living sources, liquid, n.o.s.	6.1	UN3172	II	POISON	141, IB2	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxins, extracted from living sources, liquid, n.o.s.	6.1	UN3172	III	POISON	141, IB3	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxins, extracted from living sources, solid, n.o.s.	6.1	UN3462	I	POISON	141, IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxins, extracted from living sources, solid, n.o.s.	6.1	UN3462	II	POISON	141, IB8, IP2, IP4, T3 TP33	None	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Toxins, extracted from living sources, solid, n.o.s.	6.1	UN3462	III	POISON	141, IB8, IP3, T1 TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
D	Toy Caps	1.4S	NA0337	II	EXPLOSIVE 1.4S		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Tracers for ammunition	1.3G	UN0212	II	EXPLOSIVE 1.3G		None	62	Not Accepted by FedEx Ground
	Tracers for ammunition	1.4G	UN0306	II	EXPLOSIVE 1.4G		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Tractors, see Vehicle, etc								NA
	Tri-(b-nitroxyethyl) ammonium nitrate	Forbidden							Not Accepted by FedEx Ground
	Triallyl borate	6.1	UN2609	III	POISON	IB3	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Triallylamine	3 (8)	UN2610	III	FLAMMABLE LIQUID, CORROSIVE	B1, IB3, T4, TP1	None	203	
	Triazine pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2764	I	FLAMMABLE LIQUID, POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Triazine pesticides, liquid, flammable, toxic, flash point less than 23 degrees C	3 (6.1)	UN2764	II	FLAMMABLE LIQUID, POISON	IB2, T11, TP2, TP13, TP27	150	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Triazine pesticides, liquid, toxic	6.1	UN2998	I	POISON	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Triazine pesticides, liquid, toxic	6.1	UN2998	II	POISON	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Triazine pesticides, liquid, toxic	6.1	UN2998	III	POISON	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Triazine pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN2997	I	POISON, FLAMMABLE LIQUID	T14, TP2, TP13, TP27	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Triazine pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN2997	II	POISON, FLAMMABLE LIQUID	IB2, T11, TP2, TP13, TP27	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Triazine pesticides, liquid, toxic, flammable, flash point not less than 23 degrees C	6.1 (3)	UN2997	III	POISON, FLAMMABLE LIQUID	IB3, T7, TP2, TP28	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Triazine pesticides, solid, toxic	6.1	UN2763	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Triazine pesticides, solid, toxic	6.1	UN2763	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Triazine pesticides, solid, toxic	6.1	UN2763	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Tributylamine	6.1	UN2542	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Tributylphosphane	4.2	UN3254	I	SPONTANEOUSLY COMBUSTIBLE	T21, TP7, TP33	None	211	Not Accepted by FedEx Ground
	<i>Trichloro-s-triazinetriene dry, with more than 39 percent available chlorine, see Trichloroisocyanuric acid, dry</i>								NA
	Trichloroacetic acid	8	UN1839	II	CORROSIVE	A7, IB8, IP2, IP4, N34, T3, TP33	154	212	
	Trichloroacetic acid, solution	8	UN2564	II	CORROSIVE	A3, A6, A7, B2, IB2, N34, T7, TP2	154	202	
	Trichloroacetic acid, solution	8	UN2564	III	CORROSIVE	A3, A6, A7, IB3, N34, T4, TP1	154	203	
+	Trichloroacetyl chloride	8 (6.1)	UN2442	II	CORROSIVE, POISON	2, B9, B14, B32, B74, N34, T20, TP2, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Trichlorobenzenes, liquid	6.1	UN2321	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Trichlorobutene	6.1	UN2322	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	1,1,1-Trichloroethane	6.1	UN2831	III	POISON	IB3, N36, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Trichloroethylene	6.1	UN1710	III	POISON	IB3, N36, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Trichloroisocyanuric acid, dry	5.1	UN2468	II	OXIDIZER	IB8, IP4, T3, TP33	152	212	
	<i>Trichloromethyl perchlorate</i>	Forbidden							Not Accepted by FedEx Ground
	Trichlorosilane	4.3 (3, 8)	UN1295	I	DANGEROUS WHEN WET, FLAMMABLE LIQUID, CORROSIVE	N34, T14, TP2, TP7, TP13	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Tricresyl phosphate with more than 3 percent ortho isomer	6.1	UN2574	II	POISON	A3, IB2, N33, N34, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Triethyl phosphite	3	UN2323	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Triethylamine	3 (8)	UN1296	II	FLAMMABLE LIQUID, CORROSIVE	IB2, T7, TP1	150	202	
	Triethylenetetramine	8	UN2259	II	CORROSIVE	B2, IB2, T7, TP2	154	202	
	Trifluoroacetic acid	8	UN2699	I	CORROSIVE	A3, A6, A7, B4, N3, N34, N36, T10, TP2, TP12	None	201	
	Trifluoroacetyl chloride	2.3 (8)	UN3057		POISON GAS, CORROSIVE	2, B7, B9, B14, T50, TP21	None	304	Not Accepted by FedEx Ground
	Trifluorochloroethylene, stabilized	2.3 (2.1)	UN1082		POISON GAS, FLAMMABLE GAS	3, B14, T50	None	304	Not Accepted by FedEx Ground
	Trifluoromethane or Refrigerant gas R 23	2.2	UN1984		NONFLAMMABLE GAS		306	304	
	Trifluoromethane, refrigerated liquid	2.2	UN3136		NONFLAMMABLE GAS	T75, TP5	306	None	
	1,1,1-Trifluoroethane or Refrigerant gas, R 143a	2.1	UN2035		FLAMMABLE GAS	T50	306	304	
	2-Trifluoromethylaniline	6.1	UN2942	III	POISON	IB3	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	3-Trifluoromethylaniline	6.1	UN2948	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Triformoxime trinitrate</i>	Forbidden							Not Accepted by FedEx Ground
	Triisobutylene	3	UN2324	III	FLAMMABLE LIQUID	B1, IB3, T4, TP1	150	203	
	Triisopropyl borate	3	UN2616	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Triisopropyl borate	3	UN2616	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
D	Trimethoxysilane	6.1 (3)	NA9269	I	POISON, FLAMMABLE LIQUID	2, B9, B14, B32, B74, T20, TP4, TP12, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Trimethyl borate	3	UN2416	II	FLAMMABLE LIQUID	IB2, T7, TP1	150	202	
	Trimethyl phosphite	3	UN2329	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	<i>1,3,5-Trimethyl-2,4,6-trinitrobenzene</i>	Forbidden							Not Accepted by FedEx Ground
	Trimethylacetyl chloride	6.1 (8, 3)	UN2438	I	POISON, CORROSIVE, FLAMMABLE LIQUID	2, B3, B9, B14, B32, B74, N34, T20, TP2, TP13, TP38, TP45	None	227	Not Accepted by FedEx Ground
	Trimethylamine, anhydrous	2.1	UN1083		FLAMMABLE GAS	N87, T50	306	304	
	Trimethylamine, aqueous solutions with not more than 50 percent trimethylamine by mass	3 (8)	UN1297	I	FLAMMABLE LIQUID, CORROSIVE	T11, TP1	None	201	
	Trimethylamine, aqueous solutions with not more than 50 percent trimethylamine by mass	3 (8)	UN1297	II	FLAMMABLE LIQUID, CORROSIVE	B1, IB2, T7, TP1	150	202	
	Trimethylamine, aqueous solutions with not more than 50 percent trimethylamine by mass	3 (8)	UN1297	III	FLAMMABLE LIQUID, CORROSIVE	B1, IB3, T7, TP1	150	203	
	1,3,5-Trimethylbenzene	3	UN2325	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Trimethyltrichlorosilane	3 (8)	UN1298	II	FLAMMABLE LIQUID, CORROSIVE	A3, A7, B77, IB2, N34, T7, TP2, TP13	None	202	
	Trimethylcyclohexylamine	8	UN2326	III	CORROSIVE	IB3, T4, TP1	154	203	
	<i>Trimethylene glycol diperchlorate</i>	Forbidden							Not Accepted by FedEx Ground
	Trimethylhexamethylene diisocyanate	6.1	UN2328	III	POISON	IB3, T4, TP2, TP13	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Trimethylhexamethylenediamines	8	UN2327	III	CORROSIVE	IB3, T4, TP1	154	203	
	<i>Trimethylol nitromethane trinitrate</i>	Forbidden							Not Accepted by FedEx Ground
	Trinitro-meta-cresol	1.1D	UN0216	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	<i>2,4,6-Trinitro-1,3-diazobenzene</i>	Forbidden							Not Accepted by FedEx Ground
	<i>2,4,6-Trinitro-1,3,5-triazido benzene (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Trinitroacetic acid</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Trinitroacetone</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Trinitroamine cobalt</i>	Forbidden							Not Accepted by FedEx Ground
	Trinitroaniline or Picramide	1.1D	UN0153	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Trinitroanisole	1.1D	UN0213	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Trinitrobenzene, wetted, with not less than 10% water, by mass	4.1	UN3367	I	FLAMMABLE SOLID	162, A8, A19, N41, N84	None	211	
	Trinitrobenzene, dry or wetted with less than 30 percent water, by mass	1.1D	UN0214	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Trinitrobenzene, wetted with not less than 30 percent water, by mass	4.1	UN1354	I	FLAMMABLE SOLID	23, A2, A8, A19, N41	None	211	
	Trinitrobenzenesulfonic acid	1.1D	UN0386	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Trinitrobenzoic acid, dry or wetted with less than 30 percent water, by mass	1.1D	UN0215	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Trinitrobenzoic acid, wetted with not less than 10% water by mass	4.1	UN3368	I	FLAMMABLE SOLID	162, A8, A19, N41, N84	None	211	
	Trinitrobenzoic acid, wetted with not less than 30 percent water, by mass	4.1	UN1355	I	FLAMMABLE SOLID	23, A2, A8, A19, N41	None	211	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Trinitrochlorobenzene or Picryl chloride	1.1D	UN0155	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Trinitrochlorobenzene (picryl chloride), wetted, with not less than 10% water by mass	4.1	UN3365	I	FLAMMABLE SOLID	162, A8, A19, N41, N84	None	211	
	<i>Trinitroethanol</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Trinitroethylnitrate</i>	Forbidden							Not Accepted by FedEx Ground
	Trinitrofluorenone	1.1D	UN0387	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	<i>Trinitromethane</i>	Forbidden							Not Accepted by FedEx Ground
	<i>1,3,5-Trinitronaphthalene</i>	Forbidden							Not Accepted by FedEx Ground
	Trinitronaphthalene	1.1D	UN0217	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Trinitrophenetole	1.1D	UN0218	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Trinitrophenol (picric acid), wetted, with not less than 10 percent water by mass	4.1	UN3364	I	FLAMMABLE SOLID	162, A8, A19, N41, N84	None	211	
	Trinitrophenol or Picric acid, dry or wetted with less than 30 percent water, by mass	1.1D	UN0154	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Trinitrophenol, wetted or Picric acid, wetted, with not less than 30 percent water by mass	4.1	UN1344	I	FLAMMABLE SOLID	23, A8, A19, N41	None	211	
	<i>2,4,6-Trinitrophenyl guanidine (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	<i>2,4,6-Trinitrophenyl nitramine</i>	Forbidden							Not Accepted by FedEx Ground
	<i>2,4,6-Trinitrophenyl trimethylol methyl nitramine trinitrate (dry)</i>	Forbidden							Not Accepted by FedEx Ground
	Trinitrophenylmethylnitramine or Tetryl	1.1D	UN0208	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Trinitroresorcinol or Styphnic acid, dry or wetted with less than 20 percent water, or mixture of alcohol and water, by mass	1.1D	UN0219	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Trinitroresorcinol, wetted or Styphnic acid, wetted with not less than 20 percent water, or mixture of alcohol and water by mass	1.1D	UN0394	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	<i>2,4,6-Trinitroso-3-methyl nitraminoanisole</i>	Forbidden							Not Accepted by FedEx Ground
	<i>Trinitrotetramine cobalt nitrate</i>	Forbidden							Not Accepted by FedEx Ground
	Trinitrotoluene and Trinitrobenzene mixtures or TNT and trinitrobenzene mixtures or TNT and hexanitrostilbene mixtures or Trinitrotoluene and hexanitrostilbene mixtures	1.1D	UN0388	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Trinitrotoluene mixtures containing Trinitrobenzene and Hexanitrostilbene or TNT mixtures containing trinitrobenzene and hexanitrostilbene	1.1D	UN0389	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Trinitrotoluene or TNT, dry or wetted with less than 30 percent water, by mass	1.1D	UN0209	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Trinitrotoluene (TNT), wetted, with not less than 10 percent water by mass	4.1	UN3366	I	FLAMMABLE SOLID	162, A8, A19, N41, N84	None	211	
	Trinitrotoluene, wetted or TNT, wetted, with not less than 30 percent water by mass	4.1	UN1356	I	FLAMMABLE SOLID	23, A2, A8, A19, N41	None	211	
	Tripropylamine	3 (8)	UN2260	III	FLAMMABLE LIQUID, CORROSIVE	B1, IB3, T4, TP1	150	203	
	Tripropylene	3	UN2057	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Tripropylene	3	UN2057	II	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Tris-(1-aziridinyl)phosphine oxide, solution	6.1	UN2501	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Tris-(1-aziridinyl)phosphine oxide, solution	6.1	UN2501	III	POISON	IB3, T4, TP1	153	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Tris, bis-bifluoroamino diethoxy propane (TVOPA)</i>	Forbidden							Not Accepted by FedEx Ground
	Tritonal	1.1D	UN0390	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Tungsten hexafluoride	2.3 (8)	UN2196		POISON GAS, CORROSIVE	2, N86	None	338	Not Accepted by FedEx Ground
	Turpentine	3	UN1299	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Turpentine substitute	3	UN1300	I	FLAMMABLE LIQUID	T11, TP1, TP8, TP27	None	201	
	Turpentine substitute	3	UN1300	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Turpentine substitute	3	UN1300	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Undecane	3	UN2330	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Urea hydrogen peroxide	5.1 (8)	UN1511	III	OXIDIZER, CORROSIVE	A1, A7, A29, IB8, IP3, T1, TP33	152	213	
	Urea nitrate, dry or wetted with less than 20 percent water, by mass	1.1D	UN0220	II	EXPLOSIVE 1.1D	119	None	62	Not Accepted by FedEx Ground
	Urea nitrate, wetted, with not less than 10 percent water by mass	4.1	UN3370	I	FLAMMABLE SOLID	162, A8, A19, N41, N84	None	211	
	Urea nitrate, wetted with not less than 20 percent water, by mass	4.1	UN1357	I	FLAMMABLE SOLID	23, 39, A8, A19, N41	None	211	Not Accepted by FedEx Ground
	<i>Urea peroxide, see Urea hydrogen peroxide</i>								NA
	Valeraldehyde	3	UN2058	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	<i>Valeric acid, see Corrosive liquids, n.o.s.</i>								NA
	Valeryl chloride	8 (3)	UN2502	II	CORROSIVE, FLAMMABLE LIQUID	A3, A6, A7, B2, IB2, N34, T7, TP2	154	202	
	Vanadium compound, n.o.s.	6.1	UN3285	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Vanadium compound, n.o.s.	6.1	UN3285	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Vanadium compound, n.o.s.	6.1	UN3285	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Vanadium oxytrichloride	8	UN2443	II	CORROSIVE	A3, A6, A7, B2, B16, IB2, N34, T7, TP2	154	202	
	Vanadium pentoxide, non-fused form	6.1	UN2862	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Vanadium tetrachloride	8	UN2444	I	CORROSIVE	A3, A6, A7, B4, N34, T10, TP2	None	201	
	Vanadium trichloride	8	UN2475	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	
	Vanadyl sulfate	6.1	UN2931	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Vehicle, flammable gas powered	9	UN3166		CLASS 9	135, 157	220	220	
	Vehicle, flammable liquid powered	9	UN3166		CLASS 9	135, 157	220	220	
	<i>Very signal cartridge, see Cartridges, signal</i>								NA
	Vinyl acetate, stabilized	3	UN1301	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Vinyl bromide, stabilized	2.1	UN1085		FLAMMABLE GAS	N86, T50	306	304	
	Vinyl butyrate, stabilized	3	UN2838	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Vinyl chloride, stabilized	2.1	UN1086		FLAMMABLE GAS	21, B44, N86, T50	306	304	Not Accepted by FedEx Ground
	Vinyl chloroacetate	6.1 (3)	UN2589	II	POISON, FLAMMABLE LIQUID	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Vinyl ethyl ether, stabilized	3	UN1302	I	FLAMMABLE LIQUID	A3, T11, TP2	None	201	
	Vinyl fluoride, stabilized	2.1	UN1860		FLAMMABLE GAS	N86	306	304	
	Vinyl isobutyl ether, stabilized	3	UN1304	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Vinyl methyl ether, stabilized	2.1	UN1087		FLAMMABLE GAS	B44, T50	306	304	
	<i>Vinyl nitrate polymer</i>	Forbidden							Not Accepted by FedEx Ground

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Vinylidene chloride, stabilized	3	UN1303	I	FLAMMABLE LIQUID	T12, TP2, TP7	150	201	
	Vinylpyridines, stabilized	6.1 (3, 8)	UN3073	II	POISON, FLAMMABLE LIQUID, CORROSIVE	IB1, T7, TP2, TP13	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Vinyltoluenes, stabilized	3	UN2618	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Vinyltrichlorosilane, stabilized	3 (8)	UN1305	I	FLAMMABLE LIQUID, CORROSIVE	A3, A7, B6, N34, T11, TP2, TP13	None	201	
	Warheads, rocket with burster or expelling charge	1.4D	UN0370	II	EXPLOSIVE 1.4D		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Warheads, rocket with burster or expelling charge	1.4F	UN0371	II	EXPLOSIVE 1.4F		None	62	Packages may require an EX number marked on the shipping paper. (see 49CFR 173.56 and 49CFR 172.320)
	Warheads, rocket with bursting charge	1.1D	UN0286	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
	Warheads, rocket with bursting charge	1.2D	UN0287	II	EXPLOSIVE 1.2D		None	62	Not Accepted by FedEx Ground
	Warheads, rocket with bursting charge	1.1F	UN0369	II	EXPLOSIVE 1.1F		None	62	Not Accepted by FedEx Ground
	Warheads, torpedo with bursting charge	1.1D	UN0221	II	EXPLOSIVE 1.1D		None	62	Not Accepted by FedEx Ground
G	Water-reactive liquid, corrosive, n.o.s.	4.3 (8)	UN3129	I	DANGEROUS WHEN WET, CORROSIVE		None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive liquid, corrosive, n.o.s.	4.3 (8)	UN3129	II	DANGEROUS WHEN WET, CORROSIVE	IB1	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive liquid, corrosive, n.o.s.	4.3 (8)	UN3129	III	DANGEROUS WHEN WET, CORROSIVE	IB2	None	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive liquid, n.o.s.	4.3	UN3148	I	DANGEROUS WHEN WET		None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive liquid, n.o.s.	4.3	UN3148	II	DANGEROUS WHEN WET	IB1	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive liquid, n.o.s.	4.3	UN3148	III	DANGEROUS WHEN WET	IB2	None	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive liquid, toxic, n.o.s.	4.3 (6.1)	UN3130	I	DANGEROUS WHEN WET, POISON	A4	None	201	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive liquid, toxic, n.o.s.	4.3 (6.1)	UN3130	II	DANGEROUS WHEN WET, POISON	IB1	None	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive liquid, toxic, n.o.s.	4.3 (6.1)	UN3130	III	DANGEROUS WHEN WET, POISON	IB2	None	203	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive solid, corrosive, n.o.s.	4.3 (8)	UN3131	I	DANGEROUS WHEN WET, CORROSIVE	IB4, IP1, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive solid, corrosive, n.o.s.	4.3 (8)	UN3131	II	DANGEROUS WHEN WET, CORROSIVE	IB6, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive solid, corrosive, n.o.s.	4.3 (8)	UN3131	III	DANGEROUS WHEN WET, CORROSIVE	IB8, IP4, T1, TP33	151	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive solid, flammable, n.o.s.	4.3 (4.1)	UN3132	I	DANGEROUS WHEN WET, FLAMMABLE SOLID	IB4, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive solid, flammable, n.o.s.	4.3 (4.1)	UN3132	II	DANGEROUS WHEN WET, FLAMMABLE SOLID	IB4, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
G	Water-reactive solid, flammable, n.o.s.	4.3 (4.1)	UN3132	III	DANGEROUS WHEN WET, FLAMMABLE SOLID	IB6, T1, TP33	151	213	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
G	Water-reactive solid, n.o.s.	4.3	UN2813	I	DANGEROUS WHEN WET	IB4, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
G	Water-reactive solid, n.o.s.	4.3	UN2813	II	DANGEROUS WHEN WET	IB7, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
G	Water-reactive solid, n.o.s.	4.3	UN2813	III	DANGEROUS WHEN WET	IB8, IP4, T1, TP33	151	213	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
G	Water-reactive, solid, oxidizing, n.o.s.	4.3 (5.1)	UN3133	II	DANGEROUS WHEN WET, OXIDIZER		None	214	Not Accepted by FedEx Ground
G	Water-reactive, solid, oxidizing, n.o.s.	4.3 (5.1)	UN3133	III	DANGEROUS WHEN WET, OXIDIZER		None	214	Not Accepted by FedEx Ground
G	Water-reactive solid, self-heating, n.o.s.	4.3 (4.2)	UN3135	I	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	N40	None	211	Not Accepted by FedEx Ground
G	Water-reactive solid, self-heating, n.o.s.	4.3 (4.2)	UN3135	II	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	IB5, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
G	Water-reactive solid, self-heating, n.o.s.	4.3 (4.2)	UN3135	III	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	IB8, IP4, T1, TP33	None	213	Not Accepted by FedEx Ground
G	Water-reactive solid, toxic, n.o.s.	4.3 (6.1)	UN3134	I	DANGEROUS WHEN WET, POISON	A8, IB4, IP1, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive solid, toxic, n.o.s.	4.3 (6.1)	UN3134	II	DANGEROUS WHEN WET, POISON	IB5, IP2, T3, TP33	151	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
G	Water-reactive solid, toxic, n.o.s.	4.3 (6.1)	UN3134	III	DANGEROUS WHEN WET, POISON	IB8, IP4, T1, TP33	151	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Wheel chair, electric, see Battery powered vehicle or Battery powered equipment								NA
	White acid, see Hydrofluoric acid								NA
I	White asbestos (chrysotile, actinolite, anthophyllite, tremolite)	9	UN2590	III	CLASS 9	156, IB8, IP2, IP3, T1, TP33	155	216	
	Wood preservatives, liquid	3	UN1306	II	FLAMMABLE LIQUID	149, IB2, T4, TP1, TP8	150	202	
	Wood preservatives, liquid	3	UN1306	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
A W	Wool waste, wet	4.2	UN1387	III	SPONTANEOUSLY COMBUSTIBLE		151	213	Not Accepted by FedEx Ground
	Xanthates	4.2	UN3342	II	SPONTANEOUSLY COMBUSTIBLE	IB6, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
	Xanthates	4.2	UN3342	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
	Xenon, compressed	2.2	UN2036		NONFLAMMABLE GAS		306	302	
	Xenon, refrigerated liquid (cryogenic liquids)	2.2	UN2591		NONFLAMMABLE GAS	T75, TP5	320	None	Accepted only when packaged under exception 49CFR 173.320
	Xylenes	3	UN1307	II	FLAMMABLE LIQUID	IB2, T4, TP1	150	202	
	Xylenes	3	UN1307	III	FLAMMABLE LIQUID	B1, IB3, T2, TP1	150	203	
	Xylenols, solid	6.1	UN2261	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Xylenols, liquid	6.1	UN3430	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Xylidines, liquid	6.1	UN1711	II	POISON	IB2, T7, TP2	153	202	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Xylidines, solid	6.1	UN3452	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

1	2	3	4	5	6	7	8A	8B	9
Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
	Xylyl bromide, liquid	6.1	UN1701	II	POISON	A3, A6, A7, IB2, N33, T7, TP2, TP13	None	340	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Xylyl bromide, solid	6.1	UN3417	II	POISON	A3, A6, A7, IB8, IP2, IP4, N33, T3, TP33	None	340	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>p-Xylyl diazide</i>	Forbidden							Not Accepted by FedEx Ground
	Zinc ammonium nitrite	5.1	UN1512	II	OXIDIZER	IB8, IP4, T3, TP33	None	212	
	Zinc arsenate or Zinc arsenite or Zinc arsenate and zinc arsenite mixtures	6.1	UN1712	II	POISON	IB8, IP2, IP4, T3, TP33	153	212	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Zinc ashes	4.3	UN1435	III	DANGEROUS WHEN WET	A1, A19, IB8, IP4, T1, TP33	151	213	Accepted only when packaged under applicable special permit, 49CFR 173.13 or 173.151
	<i>Zinc bisulfite solution, see Bisulfites, aqueous solutions, n.o.s.</i>								NA
	Zinc bromate	5.1	UN2469	III	OXIDIZER	A1, A29, IB8, IP3, T1, TP33	152	213	
	Zinc chlorate	5.1	UN1513	II	OXIDIZER	A9, IB8, IP2, IP4, N34, T3, TP33	152	212	
	Zinc chloride, anhydrous	8	UN2331	III	CORROSIVE	IB8, IP3, T1, TP33	None	213	
	Zinc chloride, solution	8	UN1840	III	CORROSIVE	IB3, T4, TP1	154	203	
	Zinc cyanide	6.1	UN1713	I	POISON	IB7, IP1, T6, TP33	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13. Not to exceed 10 lb. (4.54kg) per package- see RQ Table
	Zinc dithionite or Zinc hydrosulfite	None	UN1931	III	NONE	IB8, IP3, T1, TP33	155	204	
	<i>Zinc ethyl, see Diethylzinc</i>								NA
	Zinc fluorosilicate	6.1	UN2855	III	POISON	IB8, IP3, T1, TP33	153	213	Accepted only when packaged under applicable special permit or 49CFR 173.13
	<i>Zinc hydrosulfite, see Zinc dithionite</i>								NA
	<i>Zinc muriate solution, see Zinc chloride, solution</i>								NA
	Zinc nitrate	5.1	UN1514	II	OXIDIZER	IB8, IP4, T3, TP33	152	212	
	Zinc permanganate	5.1	UN1515	II	OXIDIZER	IB6, IP2, T3, TP33	152	212	
	Zinc peroxide	5.1	UN1516	II	OXIDIZER	IB6, IP2, T3, TP33	152	212	
	Zinc phosphide	4.3 (6.1)	UN1714	I	DANGEROUS WHEN WET, POISON	A19, N40	None	211	Accepted only when packaged under applicable special permit or 49CFR 173.13
	Zinc powder or Zinc dust	4.3 (4.2)	UN1436	I	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	A19, IB4, IP1, N40	None	211	Not Accepted by FedEx Ground
	Zinc powder or Zinc dust	4.3 (4.2)	UN1436	II	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	A19, IB7, IP2, T3, TP33	None	212	Not Accepted by FedEx Ground
	Zinc powder or Zinc dust	4.3 (4.2)	UN1436	III	DANGEROUS WHEN WET, SPONTANEOUSLY COMBUSTIBLE	IB8, IP4, T1, TP33	None	213	Not Accepted by FedEx Ground
	Zinc resinate	4.1	UN2714	III	FLAMMABLE SOLID	A1, IB6, T1, TP33	151	213	
	<i>Zinc selenate, see Selenates or Selenites</i>								NA
	<i>Zinc selenite, see Selenates or Selenites</i>								NA
	<i>Zinc silicofluoride, see Zinc fluorosilicate</i>								NA

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

FedEx Ground Hazardous Materials Table

Symbols	Hazardous Materials Description and Proper Shipping Name	Hazard Class or Division	Identification Numbers	PG	Label Codes	Special Provisions	Section 173.*** Exceptions	Section 173.*** NonBulk	FedEx Ground Restrictions
1	2	3	4	5	6	7	8A	8B	9
	Zirconium, dry, coiled wire, finished metal sheets, strip (thinner than 254 microns but not thinner than 18 microns)	4.1	UN2858	III	FLAMMABLE SOLID	A1	151	213	
	Zirconium, dry, finished sheets, strip or coiled wire	4.2	UN2009	III	SPONTANEOUSLY COMBUSTIBLE	A1, A19	None	213	Not Accepted by FedEx Ground
	Zirconium hydride	4.1	UN1437	II	FLAMMABLE SOLID	A19, A20, IB4, N34, T3, TP33	None	212	
	Zirconium nitrate	5.1	UN2728	III	OXIDIZER	A1, A29, IB8, IP3, T1, TP33	152	213	
	Zirconium picramate, dry or wetted with less than 20 percent water, by mass	1.3C	UN0236	II	EXPLOSIVE 1.3C		None	62	Not Accepted by FedEx Ground
	Zirconium picramate, wetted with not less than 20 percent water, by mass	4.1	UN1517	I	FLAMMABLE SOLID	23, N41	None	211	
	Zirconium powder, dry	4.2	UN2008	I	SPONTANEOUSLY COMBUSTIBLE	T21, TP7, TP33	None	211	Not Accepted by FedEx Ground
	Zirconium powder, dry	4.2	UN2008	II	SPONTANEOUSLY COMBUSTIBLE	A19, A20, IB6, IP2, N5, N34, T3, TP33	None	212	Not Accepted by FedEx Ground
	Zirconium powder, dry	4.2	UN2008	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, T1, TP33	None	213	Not Accepted by FedEx Ground
	Zirconium powder, wetted with not less than 25 percent water (a visible excess of water must be present) (a) mechanically produced, particle size less than 53 microns; (b) chemically produced, particle size less than 840 microns	4.1	UN1358	II	FLAMMABLE SOLID	A19, A20, IB6, IP2, N34, T3, TP33	None	212	
	Zirconium scrap	4.2	UN1932	III	SPONTANEOUSLY COMBUSTIBLE	IB8, IP3, N34, T1, TP33	None	213	Not Accepted by FedEx Ground
	Zirconium suspended in a liquid	3	UN1308	I	FLAMMABLE LIQUID		None	201	
	Zirconium suspended in a liquid	3	UN1308	II	FLAMMABLE LIQUID	IB2	None	202	
	Zirconium suspended in a liquid	3	UN1308	III	FLAMMABLE LIQUID	B1, IB2	150	203	
	Zirconium tetrachloride	8	UN2503	III	CORROSIVE	IB8, IP3, T1, TP33	154	213	

Note: Proper shipping names that must include a technical name in parentheses are indicated by the letter "G" in column 1.

§172.102 Special provisions.

Tables of special provisions. The following tables list, and set forth the requirements of, the special provisions referred to in Column 7 of the §172.102 Table or FedEx Ground Hazardous Materials Table. FedEx Ground may have additional restrictions; refer to Column 9 in the Hazardous Materials Table of this guide.

(a) General. When Column 7 of the §172.101 Table refers to a special provision for a hazardous material, the meaning and requirements of that provision are as set forth in this section. When a special provision specifies packaging or packaging requirements-

- 1) The special provision is in addition to the standard requirements for all packagings prescribed in §173.24 of this subchapter and any other applicable packaging requirements in subparts A and B of part 173 of this subchapter; and
- 2) To the extent a special provision imposes limitations or additional requirements on the packaging provisions set forth in Column 8 of the §172.101 Table, packagings must conform to the requirements of the special provision.

Code/Special Provisions

1 This material is poisonous by inhalation (see §171.8 of this subchapter) in Hazard Zone A (see §173.116(a) or §173.133(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter.

2 This material is poisonous by inhalation (see §171.8 of this subchapter) in Hazard Zone B (see §173.116(a) or §173.133(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter.

3 This material is poisonous by inhalation (see §171.8 of this subchapter) in Hazard Zone C (see §173.116(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter.

4 This material is poisonous by inhalation (see §171.8 of this subchapter) in Hazard Zone D (see §173.116(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter.

5 If this material meets the definition for a material poisonous by inhalation (see §171.8 of this subchapter), a shipping name must be selected which identifies the inhalation hazard, in Division 2.3 or Division 6.1, as appropriate.

6 This material is poisonous-by-inhalation and must be described as an inhalation hazard under the provisions of this subchapter.

8 A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.

9 Packaging for certain PCBs for disposal and storage is prescribed by EPA in 40 CFR 761.60 and 761.65.

11 The hazardous material must be packaged as either a liquid or a solid, as appropriate, depending on its physical form at 55 °C (131 °F) at atmospheric pressure.

12 In concentrations greater than 40 percent, this material has strong oxidizing properties and is capable of starting fires in contact with combustible materials. If appropriate, a package containing this material must conform to the additional labeling requirements of §172.402 of this subchapter.

13 The words "Inhalation Hazard" shall be entered on each shipping paper in association with the shipping description, shall be marked on each non-bulk package in association with the proper shipping name and identification number, and shall be marked on two opposing sides of each bulk package. Size of marking on bulk package must conform to §172.302(b) of this subchapter. The requirements of §§172.203(m) and 172.505 of this subchapter do not apply.

14 Motor fuel antiknock mixtures are:

a. Mixtures of one or more organic lead mixtures (such as tetraethyl lead, triethylmethyl lead, diethyldimethyl lead, ethyltrimethyl lead, and tetramethyl lead) with one or more halogen compounds (such as ethylene dibromide and ethylene dichloride), hydrocarbon solvents or other equally efficient stabilizers; or

b. tetraethyl lead.

15 This entry applies to "Chemical kits" and "First aid kits" containing one or more compatible items of hazardous materials in boxes, cases, etc. that, for example, are used for medical, analytical, diagnostic, testing, or repair purposes. For transportation by aircraft, materials forbidden for transportation by passenger aircraft or cargo aircraft may not be included in the kits. Chemical kits and first aid kits are excepted from the specification packaging requirements of this subchapter when packaged in combination packagings. Chemical kits and first aid kits are also excepted from the labeling and placarding requirements of this subchapter, except when offered for transportation or transported by air. Chemical and first aid kits may be transported in accordance with the consumer commodity and ORM exceptions in §173.156, provided they meet all required conditions. Kits that are carried on board transport vehicles for first aid or operating purposes are not subject to the requirements of this subchapter.

16 This description applies to smokeless powder and other solid propellants that are used as powder for small arms and have been classed as Division 1.3 and 4.1 in accordance with §173.56 of this subchapter.

18 This description is authorized only for fire extinguishers listed in §173.309(b) of this subchapter meeting the following conditions:

a. Each fire extinguisher may only have extinguishing contents that are nonflammable, non-poisonous, non-corrosive and commercially free from corroding components.

b. Each fire extinguisher must be charged with a nonflammable, non-poisonous, dry gas that has a dew-point at or below minus 46.7 °C (minus 52 °F) at 101 kPa (1 atmosphere) and is free of corroding components, to not more than the service pressure of the cylinder.

c. A fire extinguisher may not contain more than 30% carbon dioxide by volume or any other corrosive extinguishing agent.

d. Each fire extinguisher must be protected externally by suitable corrosion-resisting coating.

19 For domestic transportation only, the identification number "UN1075" may be used in place of the identification number specified in column (4) of the §172.101 table. The identification number used must be consistent on package markings, shipping papers and emergency response information.

21 This material must be stabilized by appropriate means (e.g., addition of chemical inhibitor, purging to remove oxygen) to prevent dangerous polymerization (see §173.21(f) of this subchapter).

22 If the hazardous material is in dispersion in organic liquid, the organic liquid must have a flash point above 50 °C (122 °F).

23 This material may be transported under the provisions of Division 4.1 only if it is so packed that the percentage of diluent will not fall below that stated in the shipping description at any time during transport. Quantities of not more than 500 g per package with not less than 10 percent water by mass may also be classed in Division 4.1, provided a negative test result is obtained when tested in accordance with test series 6(c) of the UN Manual of Tests and Criteria (IBR, see §171.7 of this subchapter).

24 Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than 70 percent alcohol by volume must be transported as materials in Packing Group III.

26 This entry does not include ammonium permanganate, the transport of which is prohibited except when approved by the Associate Administrator.

28 The dihydrated sodium salt of dichloroisocyanuric acid is not subject to the requirements of this subchapter.

29 For transportation by motor vehicle, rail car or vessel, production runs (exceptions for prototypes can be found in §173.185(e)) of not more than 100 lithium cells or batteries are excepted from the testing requirements of §173.185(a)(1) if—

a. For a lithium metal cell or battery, the lithium content is not more than 1.0 g per cell and the aggregate lithium content is not more than 2.0 g per battery, and, for a lithium-ion cell or battery, the equivalent lithium content is not more than 1.5 g per cell and the aggregate equivalent lithium content is not more than 8 g per battery;

b. The cells and batteries are transported in an outer packaging that is a metal, plastic or plywood drum or metal, plastic or wooden box that meets the criteria for Packing Group I packagings; and

c. Each cell and battery is individually packed in an inner packaging inside an outer packaging and is surrounded by cushioning material that is non-combustible, and non-conductive.

30 Sulfur is not subject to the requirements of this subchapter if transported in a non-bulk packaging or if formed to a specific shape (for example, prills, granules, pellets, pastilles, or flakes). A bulk packaging containing sulfur is not subject to the placarding requirements of subpart F of this part, if it is marked with the appropriate identification number as required by subpart D of this part. Molten sulfur must be marked as required by §172.325 of this subchapter.

31 Materials which have undergone sufficient heat treatment to render them non-hazardous are not subject to the requirements of this subchapter.

32 Polymeric beads and molding compounds may be made from polystyrene, poly(methyl methacrylate) or other polymeric material.

33 Ammonium nitrites and mixtures of an inorganic nitrite with an ammonium salt are prohibited.

34 The commercial grade of calcium nitrate fertilizer, when consisting mainly of a double salt (calcium nitrate and ammonium nitrate) containing not more than 10 percent ammonium nitrate and at least 12 percent water of crystallization, is not subject to the requirements of this subchapter.

35 Antimony sulphides and oxides which do not contain more than 0.5 percent of arsenic calculated on the total mass do not meet the definition of Division 6.1.

37 Unless it can be demonstrated by testing that the sensitivity of the substance in its frozen state is no greater than in its liquid state, the substance must remain liquid during normal transport conditions. It must not freeze at temperatures above $-15\text{ }^{\circ}\text{C}$ ($5\text{ }^{\circ}\text{F}$).

38 If this material shows a violent effect in laboratory tests involving heating under confinement, the labeling requirements of Special Provision 53 apply, and the material must be packaged in accordance with packing method OP6 in §173.225 of this subchapter. If the SADT of the technically pure substance is higher than $75\text{ }^{\circ}\text{C}$, the technically pure substance and formulations derived from it are not self-reactive materials and, if not meeting any other hazard class, are not subject to the requirements of this subchapter.

39 This substance may be carried under provisions other than those of Class 1 only if it is so packed that the percentage of water will not fall below that stated at any time during transport. When phlegmatized with water and inorganic inert material, the content of urea nitrate must not exceed 75 percent by mass and the mixture should not be capable of being detonated by test 1(a)(i) or test 1(a)(ii) in the UN Manual of Tests and Criteria (IBR, see §171.7 of this subchapter).

40 Polyester resin kits consist of two components: a base material (Class 3, Packing Group II or III) and an activator (organic peroxide), each separately packed in an inner packaging. The organic peroxide must be type D, E, or F, not requiring temperature control, and be limited to a quantity of 125 mL (4.22 ounces) per inner packaging if liquid, and 500 g (1 pound) if solid. The components may be placed in the same outer packaging provided they will not interact dangerously in the event of leakage. Packing group will be II or III, according to the criteria for Class 3, applied to the base material.

43 The membrane filters, including paper separators and coating or backing materials, that are present in transport, must not be able to propagate a detonation as tested by one of the tests

described in the UN Manual of Tests and Criteria, Part I, Test series 1(a) (IBR, see §171.7 of this subchapter). On the basis of the results of suitable burning rate tests, and taking into account the standard tests in the UN Manual of Tests and Criteria, Part III, subsection 33.2.1 (IBR, see §171.7 of this subchapter), nitrocellulose membrane filters in the form in which they are to be transported that do not meet the criteria for a Division 4.1 material are not subject to the requirements of this subchapter. Packagings must be so constructed that explosion is not possible by reason of increased internal pressure. Nitrocellulose membrane filters covered by this entry, each with a mass not exceeding 0.5 g, are not subject to the requirements of this subchapter when contained individually in an article or a sealed packet.

44 The formulation must be prepared so that it remains homogenous and does not separate during transport. Formulations with low nitrocellulose contents and neither showing dangerous properties when tested for their ability to detonate, deflagrate or explode when heated under defined confinement by the appropriate test methods and criteria in the UN Manual of Tests and Criteria (IBR, see §171.7 of this subchapter), nor classed as a Division 4.1 (flammable solid) when tested in accordance with the procedures specified in §173.124 of this subchapter (chips, if necessary, crushed and sieved to a particle size of less than 1.25 mm), are not subject to the requirements of this subchapter.

45 Temperature should be maintained between 18 °C (64.4 °F) and 40 °C (104 °F). Tanks containing solidified methacrylic acid must not be reheated during transport.

46 This material must be packed in accordance with packing method OP6 (see §173.225 of this subchapter). During transport, it must be protected from direct sunshine and stored (or kept) in a cool and well-ventilated place, away from all sources of heat.

47 Mixtures of solids that are not subject to this subchapter and flammable liquids may be transported under this entry without first applying the classification criteria of Division 4.1, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Except when the liquids are fully absorbed in solid material contained in sealed bags, each packaging must correspond to a design type that has passed a leakproofness test at the Packing Group II level. Small inner packagings consisting of sealed packets and articles containing less than 10 mL of a Class 3 liquid in Packing Group II or III absorbed onto a solid material are not subject to this subchapter provided there is no free liquid in the packet or article.

48 Mixtures of solids which are not subject to this subchapter and toxic liquids may be transported under this entry without first applying the classification criteria of Division 6.1, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each packaging must correspond to a design type that has passed a leakproofness test at the Packing Group II level. This entry may not be used for solids containing a Packing Group I liquid.

49 Mixtures of solids which are not subject to this subchapter and corrosive liquids may be transported under this entry without first applying the classification criteria of Class 8, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each packaging must correspond to a design type that has passed a leakproofness test at the Packing Group II level.

50 Cases, cartridge, empty with primer which are made of metallic or plastic casings and meeting the classification criteria of Division 1.4 are not regulated for domestic transportation.

51 This description applies to items previously described as "Toy propellant devices, Class C" and includes reloadable kits. Model rocket motors containing 30 grams or less propellant are

classed as Division 1.4S and items containing more than 30 grams of propellant but not more than 62.5 grams of propellant are classed as Division 1.4C.

52 This entry may only be used for substances that do not exhibit explosive properties of Class 1 (explosive) when tested in accordance with Test Series 1 and 2 of Class 1 (explosive) in the UN Manual of Tests and Criteria, Part I (incorporated by reference; see §171.7 of this subchapter).

53 Packages of these materials must bear the subsidiary risk label, "EXPLOSIVE", and the subsidiary hazard class/division must be entered in parentheses immediately following the primary hazard class in the shipping description, unless otherwise provided in this subchapter or through an approval issued by the Associate Administrator, or the competent authority of the country of origin. A copy of the approval shall accompany the shipping papers.

54 Maneb or maneb preparations not meeting the definition of Division 4.3 or any other hazard class are not subject to the requirements of this subchapter when transported by motor vehicle, rail car, or aircraft.

55 This device must be approved in accordance with §173.56 of this subchapter by the Associate Administrator.

56 A means to interrupt and prevent detonation of the detonator from initiating the detonating cord must be installed between each electric detonator and the detonating cord ends of the jet perforating guns before the charged jet perforating guns are offered for transportation.

57 Maneb or Maneb preparations stabilized against self-heating need not be classified in Division 4.2 when it can be demonstrated by testing that a volume of 1 m³ of substance does not self-ignite and that the temperature at the center of the sample does not exceed 200 °C, when the sample is maintained at a temperature of not less than 75 °C ±2 °C for a period of 24 hours, in accordance with procedures set forth for testing self-heating materials in the UN Manual of Tests and Criteria (IBR, see §171.7 of this subchapter).

58 Aqueous solutions of Division 5.1 inorganic solid nitrate substances are considered as not meeting the criteria of Division 5.1 if the concentration of the substances in solution at the minimum temperature encountered in transport is not greater than 80% of the saturation limit.

59 Ferrocium, stabilized against corrosion, with a minimum iron content of 10 percent is not subject to the requirements of this subchapter.

61 A chemical oxygen generator is spent if its means of ignition and all or a part of its chemical contents have been expended.

62 Oxygen generators (see §171.8 of this subchapter) are not authorized for transportation under this entry.

64 The group of alkali metals includes lithium, sodium, potassium, rubidium, and caesium.

65 The group of alkaline earth metals includes magnesium, calcium, strontium, and barium.

66 Formulations of these substances containing not less than 30 percent non-volatile, non-flammable phlegmatizer are not subject to this subchapter.

70 Black powder that has been classed in accordance with the requirements of §173.56 of this subchapter may be reclassified and offered for domestic transportation as a Division 4.1 material if

it is offered for transportation and transported in accordance with the limitations and packaging requirements of §173.170 of this subchapter.

74 During transport, this material must be protected from direct sunshine and stored or kept in a cool and well-ventilated place, away from all sources of heat.

77 Mixtures containing not more than 23.5% oxygen by volume may be transported under this entry when no other oxidizing gases are present. A Division 5.1 subsidiary risk label is not required if this special provision applies.

78 This entry may not be used to describe compressed air which contains more than 23.5 percent oxygen. An oxidizer label is not required for any oxygen concentration of 23.5 percent or less.

79 This entry may not be used for mixtures that meet the definition for oxidizing gas.

81 Polychlorinated biphenyl items, as defined in 40 CFR 761.3, for which specification packagings are impractical, may be packaged in non-specification packagings meeting the general packaging requirements of subparts A and B of part 173 of this subchapter. Alternatively, the item itself may be used as a packaging if it meets the general packaging requirements of subparts A and B of part 173 of this subchapter.

102 The ends of the detonating cord must be tied fast so that the explosive cannot escape. The articles may be transported as in Division 1.4 Compatibility Group D (1.4D) if all of the conditions specified in §173.63(a) of this subchapter are met.

103 Detonators which will not mass detonate and undergo only limited propagation in the shipping package may be assigned to 1.4B classification code. Mass detonate means that more than 90 percent of the devices tested in a package explode practically simultaneously. Limited propagation means that if one detonator near the center of a shipping package is exploded, the aggregate weight of explosives, excluding ignition and delay charges, in this and all additional detonators in the outside packaging that explode may not exceed 25 grams.

105 The word "Agents" may be used instead of "Explosives" when approved by the Associate Administrator.

106 The recognized name of the particular explosive may be specified in addition to the type.

107 The classification of the substance is expected to vary especially with the particle size and packaging but the border lines have not been experimentally determined; appropriate classifications should be verified following the test procedures in §§173.57 and 173.58 of this subchapter.

108 Fireworks must be so constructed and packaged that loose pyrotechnic composition will not be present in packages during transportation.

109 Rocket motors must be nonpropulsive in transportation unless approved in accordance with §173.56 of this subchapter. A rocket motor to be considered "nonpropulsive" must be capable of unrestrained burning and must not appreciably move in any direction when ignited by any means.

110 Fire extinguishers transported under UN1044 may include installed actuating cartridges (cartridges, power device of Division 1.4C or 1.4S), without changing the classification of Division

2.2, provided the aggregate quantity of deflagrating (propellant) explosives does not exceed 3.2 grams per extinguishing unit.

111 Explosive substances of Division 1.1 Compatibility Group A (1.1A) are forbidden for transportation if dry or not desensitized, unless incorporated in a device.

113 The sample must be given a tentative approval by an agency or laboratory in accordance with §173.56 of this subchapter.

114 Jet perforating guns, charged, oil well, without detonator may be reclassified to Division 1.4 Compatibility Group D (1.4D) if the following conditions are met:

a. The total weight of the explosive contents of the shaped charges assembled in the guns does not exceed 90.5 kg (200 pounds) per vehicle; and

b. The guns are packaged in accordance with Packing Method US 1 as specified in §173.62 of this subchapter.

115 Boosters with detonator, detonator assemblies and boosters with detonators in which the total explosive charge per unit does not exceed 25 g, and which will not mass detonate and undergo only limited propagation in the shipping package may be assigned to 1.4B classification code. Mass detonate means more than 90 percent of the devices tested in a package explode practically simultaneously. Limited propagation means that if one booster near the center of the package is exploded, the aggregate weight of explosives, excluding ignition and delay charges, in this and all additional boosters in the outside packaging that explode may not exceed 25 g.

116 Fuzes, detonating may be classed in Division 1.4 if the fuzes do not contain more than 25 g of explosive per fuze and are made and packaged so that they will not cause functioning of other fuzes, explosives or other explosive devices if one of the fuzes detonates in a shipping packaging or in adjacent packages.

117 If shipment of the explosive substance is to take place at a time that freezing weather is anticipated, the water contained in the explosive substance must be mixed with denatured alcohol so that freezing will not occur.

118 This substance may not be transported under the provisions of Division 4.1 unless specifically authorized by the Associate Administrator.

119 This substance, when in quantities of not more than 11.5 kg (25.3 pounds), with not less than 10 percent water, by mass, also may be classed as Division 4.1, provided a negative test result is obtained when tested in accordance with test series 6(c) of the UN Manual of Tests and Criteria (IBR, see §171.7 of this subchapter).

120 The phlegmatized substance must be significantly less sensitive than dry PETN.

121 This substance, when containing less alcohol, water or phlegmatizer than specified, may not be transported unless approved by the Associate Administrator.

123 Any explosives, blasting, type C containing chlorates must be segregated from explosives containing ammonium nitrate or other ammonium salts.

125 Lactose or glucose or similar materials may be used as a phlegmatizer provided that the substance contains not less than 90%, by mass, of phlegmatizer. These mixtures may be

classified in Division 4.1 when tested in accordance with test series 6(c) of the UN Manual of Tests and Criteria (IBR, see §171.7 of this subchapter) and approved by the Associate Administrator. Testing must be conducted on at least three packages as prepared for transport. Mixtures containing at least 98%, by mass, of phlegmatizer are not subject to the requirements of this subchapter. Packages containing mixtures with not less than 90% by mass, of phlegmatizer need not bear a POISON subsidiary risk label.

127 Mixtures containing oxidizing and organic materials transported under this entry may not meet the definition and criteria of a Class 1 material. (See §173.50 of this subchapter.)

128 Regardless of the provisions of §172.101(c)(12), aluminum smelting by-products and aluminum remelting by-products described under this entry, meeting the definition of Class 8, Packing Group II and III may be classed as a Division 4.3 material and transported under this entry. The presence of a Class 8 hazard must be communicated as required by this Part for subsidiary hazards.

129 These materials may not be classified and transported unless authorized by the Associate Administrator on the basis of results from Series 2 Test and a Series 6(c) Test from the UN Manual of Tests and Criteria (IBR, see §171.7 of this subchapter) on packages as prepared for transport. The packing group assignment and packaging must be approved by the Associate Administrator for Hazardous Materials Safety on the basis of the criteria in §173.21 of this subchapter and the package type used for the Series 6(c) test.

130 Dry batteries not specifically covered by another entry in the §172.101 Table must be described using this entry. Batteries described as “Batteries, dry, sealed, n.o.s” are hermetically sealed and generally utilize metals (other than lead) and/or carbon as electrodes. These batteries are typically used for portable power applications. The rechargeable (and some non-rechargeable) types have gelled alkaline electrolytes (rather than acidic) making it difficult for them to generate hydrogen or oxygen when overcharged and therefore, differentiating them from non-spillable batteries. “Batteries, dry, sealed, n.o.s.” are not subject to any other requirements of this subchapter except for the following:

(1) Incident reporting requirements. For transportation by aircraft, a telephone report in accordance with §171.15(a) is required if a fire, violent rupture, explosion or dangerous evolution of heat (*i.e.* , an amount of heat sufficient to be dangerous to packaging or personal safety to include charring of packaging, melting of packaging, scorching of packaging, or other evidence) occurs as a direct result of a dry battery. For all modes of transportation, a written report submitted, retained, and updated in accordance with §171.16 is required if a fire, violent rupture, explosion or dangerous evolution of heat occurs as a direct result of a dry battery or battery-powered device;

(2) Batteries and battery-powered device(s) containing batteries must be prepared and packaged for transport in a manner to prevent:

(i) A dangerous evolution of heat;

(ii) Short circuits, including but not limited to the following methods:

(a) Packaging each battery or each battery-powered device when practicable, in fully enclosed inner packagings made of non-conductive material;

(b) Separating or packaging batteries in a manner to prevent contact with other batteries, devices or conductive materials (*e.g.* , metal) in the packagings; or

(c) Ensuring exposed terminals or connectors are protected with non-conductive caps, non-conductive tape, or by other appropriate means; and

(iii) Damage to terminals. If not impact resistant, the outer packaging should not be used as the sole means of protecting the battery terminals from damage or short circuiting. Batteries must be securely cushioned and packed to prevent shifting which could loosen terminal caps or reorient the terminals to produce short circuits. Batteries contained in devices must be securely installed. Terminal protection methods include but are not limited to the following:

(a) Securely attaching covers of sufficient strength to protect the terminals;

(b) Packaging the battery in a rigid plastic packaging; or

(c) Constructing the battery with terminals that are recessed or otherwise protected so that the terminals will not be subjected to damage if the package is dropped.

(3) When transported by aircraft, for a battery whose voltage (electrical potential) exceeds 9 volts:

(i) When contained in a device, the device must be packaged in a manner that prevents unintentional activation or must have an independent means of preventing unintentional activation (e.g. , packaging restricts access to activation switch, switch caps or locks, recessed switches, trigger locks, temperature sensitive circuit breakers, etc.); and

(ii) An indication of compliance with this special provision must be provided by marking each package with the words "not restricted" or by including the words "not restricted" on a transport document such as an air waybill accompanying the shipment.

131 This material may not be offered for transportation unless approved by the Associate Administrator.

132 This entry may only be used for uniform, ammonium nitrate based fertilizer mixtures, containing nitrogen, phosphate or potash, meeting the following criteria: (1) Contains not more than 70% ammonium nitrate and not more than 0.4% total combustible, organic material calculated as carbon or (2) Contains not more than 45% ammonium nitrate and unrestricted combustible material.

134 This entry only applies to vehicles, machinery and equipment powered by wet batteries, sodium batteries, or lithium batteries that are transported with these batteries installed. Examples of such items are electrically-powered cars, lawn mowers, wheelchairs, and other mobility aids. Self-propelled vehicles that also contain an internal combustion engine must be consigned under the entry "Vehicle, flammable gas powered" or "Vehicle, flammable liquid powered", as appropriate. Except as provided in Special Provision A101, vehicles, machinery and equipment powered by primary lithium batteries that are transported with these batteries installed are forbidden aboard passenger-carrying aircraft.

135 The entries "Vehicle, flammable gas powered" or "Vehicle, flammable liquid powered," as appropriate, must be used when internal combustion engines are installed in a vehicle. These entries include hybrid electric vehicles powered by both an internal combustion engine and batteries.

136 This entry only applies to machinery and apparatus containing hazardous materials as an integral element of the machinery or apparatus. It may not be used to describe machinery or apparatus for which a proper shipping name exists in the §172.101 Table. Except when approved by the Associate Administrator, machinery or apparatus may only contain hazardous materials for which exceptions are referenced in Column (8) of the §172.101 Table and are provided in part 173, subpart D, of this subchapter. Hazardous materials shipped under this entry are excepted from the labeling requirements of this subchapter unless offered for transportation or transported by aircraft and are not subject to the placarding requirements of part 172, subpart F, of this subchapter. Orientation markings as described in §172.312 (a)(2) are required when liquid hazardous materials may escape due to incorrect orientation. The machinery or apparatus, if unpackaged, or the packaging in which it is contained shall be marked “Dangerous goods in machinery” or “Dangerous goods in apparatus”, as appropriate, with the identification number UN3363. For transportation by aircraft, machinery or apparatus may not contain any material forbidden for transportation by passenger or cargo aircraft. The Associate Administrator may except from the requirements of this subchapter, equipment, machinery and apparatus provided:

- a. It is shown that it does not pose a significant risk in transportation;
- b. The quantities of hazardous materials do not exceed those specified in §173.4a of this subchapter; and
- c. The equipment, machinery or apparatus conforms with §173.222 of this subchapter.

137 Cotton, dry; flax, dry; sisal, dry; and tampico fiber, dry are not subject to the requirements of this subchapter when they are baled in accordance with ISO 8115, “Cotton Bales—Dimensions and Density” (IBR, see §171.7 of this subchapter) to a density of not less than 360 kg/m³ (22.1 lb/ft³) for cotton, 400 kg/m³ (24.97 lb/ft³) for flax, 620 kg/m³ (38.71 lb/ft³) for sisal and 360 kg/m³ (22.1 lb/ft³) for tampico fiber and transported in a freight container or closed transport vehicle.

138 Lead compounds which, when mixed in a ratio of 1:1,000 with 0.07 M (Molar concentration) hydrochloric acid and stirred for one hour at a temperature of 23 °C ± 2 °C, exhibit a solubility of 5% or less are considered insoluble and are not subject to the requirements of this subchapter unless they meet criteria as another hazard class or division.

139 Use of the “special arrangement” proper shipping names for international shipments must be made under an IAEA Certificate of Competent Authority issued by the Associate Administrator in accordance with the requirements in §173.471, §173.472, or §173.473 of this subchapter. Use of these proper shipping names for domestic shipments may be made only under a DOT special permit, as defined in, and in accordance with the requirements of subpart B of part 107 of this subchapter.

140 This material is regulated only when it meets the defining criteria for a hazardous substance or a marine pollutant. In addition, the column 5 reference is modified to read “III” on those occasions when this material is offered for transportation or transported by highway or rail.

141 A toxin obtained from a plant, animal, or bacterial source containing an infectious substance, or a toxin contained in an infectious substance, must be classed as Division 6.2, described as an infectious substance, and assigned to UN 2814 or UN 2900, as appropriate.

142 These hazardous materials may not be classified and transported unless authorized by the Associate Administrator. The Associate Administrator will base the authorization on results from Series 2 tests and a Series 6(c) test from the UN Manual of Tests and Criteria (IBR, see §171.7 of this subchapter) on packages as prepared for transport in accordance with the requirements of this subchapter.

144 If transported as a residue in an underground storage tank (UST), as defined in 40 CFR 280.12, that has been cleaned and purged or rendered inert according to the American Petroleum Institute (API) Standard 1604 (IBR, see §171.7 of this subchapter), then the tank and this material are not subject to any other requirements of this subchapter. However, sediments remaining in the tank that meet the definition for a hazardous material are subject to the applicable regulations of this subchapter.

145 This entry applies to formulations that neither detonate in the cavitated state nor deflagrate in laboratory testing, show no effect when heated under confinement, exhibit no explosive power, and are thermally stable (self-accelerating decomposition temperature (SADT) at 60 °C (140 °F) or higher for a 50 kg (110.2 lbs.) package). Formulations not meeting these criteria must be transported under the provisions applicable to the appropriate entry in the Organic Peroxide Table in §173.225 of this subchapter.

146 This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in §171.8 of this subchapter, or any hazard class, as defined in part 173 of this subchapter, if it is designated as environmentally hazardous by another Competent Authority. This provision may be used for both domestic and international shipments.

147 This entry applies to non-sensitized emulsions, suspensions, and gels consisting primarily of a mixture of ammonium nitrate and fuel, intended to produce a Type E blasting explosive only after further processing prior to use. The mixture for emulsions typically has the following composition: 60–85% ammonium nitrate; 5–30% water; 2–8% fuel; 0.5–4% emulsifier or thickening agent; 0–10% soluble flame suppressants; and trace additives. Other inorganic nitrate salts may replace part of the ammonium nitrate. The mixture for suspensions and gels typically has the following composition: 60–85% ammonium nitrate; 0–5% sodium or potassium perchlorate; 0–17% hexamine nitrate or monomethylamine nitrate; 5–30% water; 2–15% fuel; 0.5–4% thickening agent; 0–10% soluble flame suppressants; and trace additives. Other inorganic nitrate salts may replace part of the ammonium nitrate. These substances must satisfactorily pass Test Series 8 of the UN Manual of Tests and Criteria, Part I, Section 18 (IBR, see §171.7 of this subchapter), and may not be classified and transported unless approved by the Associate Administrator.

149 When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in §173.150(b)(2) of this subchapter for inner packagings may be increased to 5 L (1.3 gallons).

150 This description may be used only for uniform mixtures of fertilizers containing ammonium nitrate as the main ingredient within the following composition limits:

a. Not less than 90% ammonium nitrate with not more than 0.2% total combustible, organic material calculated as carbon, and with added matter, if any, that is inorganic and inert when in contact with ammonium nitrate; or

b. Less than 90% but more than 70% ammonium nitrate with other inorganic materials, or more than 80% but less than 90% ammonium nitrate mixed with calcium carbonate and/or dolomite and/or mineral calcium sulphate, and not more than 0.4% total combustible, organic material calculated as carbon; or

c. Ammonium nitrate-based fertilizers containing mixtures of ammonium nitrate and ammonium sulphate with more than 45% but less than 70% ammonium nitrate, and not more than 0.4% total combustible, organic material calculated as carbon such that the sum of the percentage of compositions of ammonium nitrate and ammonium sulphate exceeds 70%.

151 If this material meets the definition of a flammable liquid in §173.120 of this subchapter, a FLAMMABLE LIQUID label is also required and the basic description on the shipping paper must indicate the Class 3 subsidiary hazard.

155 Fish meal or fish scrap may not be transported if the temperature at the time of loading either exceeds 35 °C (95 °F), or exceeds 5 °C (41 °F) above the ambient temperature, whichever is higher.

156 Asbestos that is immersed or fixed in a natural or artificial binder material, such as cement, plastic, asphalt, resins or mineral ore, or contained in manufactured products is not subject to the requirements of this subchapter.

157 This entry includes hybrid electric vehicles powered by both an internal combustion engine and wet, sodium or lithium batteries installed. Vehicles containing an internal combustion engine must be consigned under the entry "Vehicle, flammable gas powered" or "Vehicle, flammable liquid powered", as appropriate. Except as provided in Special Provision A101, vehicles powered by primary lithium batteries, that are transported with these batteries installed are forbidden aboard passenger-carrying aircraft.

159 This material must be protected from direct sunshine and kept in a cool, well-ventilated place away from sources of heat.

160 This entry applies to articles that are used as life-saving vehicle air bag inflators, air bag modules or seat-belt pretensioners containing Class 1 (explosive) materials or materials of other hazard classes. Air bag inflators and modules must be tested in accordance with Test series 6(c) of Part I of the UN Manual of Tests and Criteria (incorporated by reference; see §171.7 of this subchapter), with no explosion of the device, no fragmentation of device casing or pressure vessel, and no projection hazard or thermal effect that would significantly hinder fire-fighting or other emergency response efforts in the immediate vicinity. If the air bag inflator unit satisfactorily passes the series 6(c) test, it is not necessary to repeat the test on the air bag module.

161 For domestic transport, air bag inflators, air bag modules or seat belt pretensioners that meet the criteria for a Division 1.4G explosive must be transported using the description, "Articles, pyrotechnic for technical purposes," UN0431.

162 This material may be transported under the provisions of Division 4.1 only if it is packed so that at no time during transport will the percentage of diluent fall below the percentage that is stated in the shipping description.

163 Substances must satisfactorily pass Test Series 8 of the UN Manual of Tests and Criteria, Part I, Section 18 (IBR, see §171.7 of this subchapter).

164 Substances must not be transported under this entry unless approved by the Associate Administrator on the basis of the results of appropriate tests according to Part I of the UN Manual of Tests and Criteria (IBR, see §171.7 of this subchapter). The material must be packaged so that the percentage of diluent does not fall below that stated in the approval at any time during transportation.

165 These substances are susceptible to exothermic decomposition at elevated temperatures. Decomposition can be initiated by heat, moisture or by impurities (e.g., powdered metals (iron, manganese, cobalt, magnesium)). During the course of transportation, these substances must be shaded from direct sunlight and all sources of heat and be placed in adequately ventilated areas.

166 When transported in non-friable tablet form, calcium hypochlorite, dry, may be transported as a Packing Group III material.

167 These storage systems shall always be considered as containing hydrogen.

168 For lighters containing a Division 2.1 gas (see §171.8 of this subchapter), representative samples of each new lighter design must be examined and successfully tested as specified in §173.308(b)(3). For criteria in determining what is a new lighter design, see §173.308(b)(1). For transportation of new lighter design samples for examination and testing, see §173.308(b)(2). The examination and testing of each lighter design must be performed by a person authorized by the Associate Administrator under the provisions of subpart E of part 107 of this chapter, as specified in §173.308(a)(4). For continued use of approvals dated prior to January 1, 2012, see §173.308(b)(5).

For non-pressurized lighters containing a Class 3 (flammable liquid) material, its design, description, and packaging must be approved by the Associate Administrator prior to being offered for transportation or transported in commerce. In addition, a lighter design intended to contain a non-pressurized Class 3 material is excepted from the examination and testing criteria specified in §173.308(b)(3). An unused lighter or a lighter that is cleaned of residue and purged of vapors is not subject to the requirements of this subchapter.

169 This entry applies to lighter refills (see §171.8 of this subchapter) that contain a Division 2.1 (flammable) gas but do not contain an ignition device. Lighter refills offered for transportation under this entry may not exceed 4 fluid ounces capacity (7.22 cubic inches) or contain more than 65 grams of fuel. A lighter refill exceeding 4 fluid ounces capacity (7.22 cubic inches) or containing more than 65 grams of fuel must be classed as a Division 2.1 material, described with the proper shipping name appropriate for the material, and packaged in the packaging specified in part 173 of this subchapter for the flammable gas contained therein. In addition, a container exceeding 4 fluid ounces volumetric capacity (7.22 cubic inches) or containing more than 65 grams of fuel may not be connected or manifolded to a lighter or similar device and must also be described and packaged according to the fuel contained therein. For transportation by passenger-carrying aircraft, the net mass of lighter refills may not exceed 1 kg per package, and, for cargo-only aircraft, the net mass of lighter refills may not exceed 15 kg per package. See §173.306(h) of this subchapter.

170 Air must be eliminated from the vapor space by nitrogen or other means.

171 This entry may only be used when the material is transported in non-friable tablet form or for granular or powdered mixtures that have been shown to meet the PG III criteria in §173.127.

172 This entry includes alcohol mixtures containing up to 5% petroleum products.

175 This substance must be stabilized when in concentrations of not more than 99%.

177 Gasoline, or, ethanol and gasoline mixtures, for use in internal combustion engines (e.g. , in automobiles, stationary engines and other engines) must be assigned to Packing Group II regardless of variations in volatility.

188 *Small lithium cells and batteries.* Lithium cells or batteries, including cells or batteries packed with or contained in equipment, are not subject to any other requirements of this subchapter if they meet all of the following:

a. *Primary lithium batteries and cells.*

- (1) Primary lithium batteries and cells are forbidden for transport aboard passenger-carrying aircraft. The outside of each package that contains primary (nonrechargeable) lithium batteries or cells must be marked “PRIMARY LITHIUM BATTERIES—FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT” or “LITHIUM METAL BATTERIES—FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT” on a background of contrasting color. The letters in the marking must be:
- (i) At least 12 mm (0.5 inch) in height on packages having a gross weight of more than 30 kg (66 pounds); or
 - (ii) At least 6 mm (0.25 inch) on packages having a gross weight of 30 kg (66 pounds) or less, except that smaller font may be used as necessary to fit package dimensions; and
- (2) The provisions of paragraph (a)(1) do not apply to packages that contain 5 kg (11 pounds) net weight or less of primary lithium batteries or cells that are contained in or packed with equipment and the package contains no more than the number of lithium batteries or cells necessary to power the piece of equipment;
- b. For a lithium metal or lithium alloy cell, the lithium content is not more than 1.0 g. For a lithium-ion cell, the equivalent lithium content is not more than 1.5 g;
- c. For a lithium metal or lithium alloy battery, the aggregate lithium content is not more than 2.0 g. For a lithium-ion battery, the aggregate equivalent lithium content is not more than 8 g;
- d. Effective October 1, 2009, the cell or battery must be of a type proven to meet the requirements of each test in the UN Manual of Tests and Criteria (IBR; see §171.7 of this subchapter);
- e. Cells or batteries are separated or packaged in a manner to prevent short circuits and are packed in a strong outer packaging or are contained in equipment;
- f. Effective October 1, 2008, except when contained in equipment, each package containing more than 24 lithium cells or 12 lithium batteries must be:
- (1) Marked to indicate that it contains lithium batteries, and special procedures should be followed if the package is damaged;
 - (2) Accompanied by a document indicating that the package contains lithium batteries and special procedures should be followed if the package is damaged;
 - (3) Capable of withstanding a 1.2 meter drop test in any orientation without damage to cells or batteries contained in the package, without shifting of the contents that would allow short circuiting and without release of package contents; and
 - (4) Gross weight of the package may not exceed 30 kg (66 pounds). This requirement does not apply to lithium cells or batteries packed with equipment;
- g. Electrical devices must conform to §173.21;
- h. For transportation by aircraft, a telephone report in accordance with §171.15(a) is required if a fire, violent rupture, explosion or dangerous evolution of heat (*i.e.* , an amount of heat sufficient to be dangerous to packaging or personal safety to include charring of packaging,

melting of packaging, scorching of packaging, or other evidence) occurs as a direct result of a lithium battery. For all modes of transportation, a written report submitted, retained, and updated in accordance with §171.16 is required if a fire, violent rupture, explosion or dangerous evolution of heat occurs as a direct result of a lithium battery or battery-powered device; and

i. Lithium batteries or cells are not authorized aboard an aircraft in checked or carry-on luggage except as provided in §175.10.

189 *Medium lithium cells and batteries.* Effective October 1, 2008, when transported by motor vehicle or rail car, lithium cells or batteries, including cells or batteries packed with or contained in equipment, are not subject to any other requirements of this subchapter if they meet all of the following:

a. The lithium content anode of each cell, when fully charged, is not more than 5 grams.

b. The aggregate lithium content of the anode of each battery, when fully charged, is not more than 25 grams.

c. The cells or batteries are of a type proven to meet the requirements of each test in the UN Manual of Tests and Criteria (IBR; see §171.7 of this subchapter). A cell or battery and equipment containing a cell or battery that was first transported prior to January 1, 2006 and is of a type proven to meet the criteria of Class 9 by testing in accordance with the tests in the UN Manual of Tests and Criteria, Third revised edition, 1999, need not be retested.

d. Cells or batteries are separated or packaged in a manner to prevent short circuits and are packed in a strong outer packaging or are contained in equipment.

e. The outside of each package must be marked "LITHIUM BATTERIES—FORBIDDEN FOR TRANSPORT ABOARD AIRCRAFT AND VESSEL" on a background of contrasting color, in letters:

(1) At least 12 mm (0.5 inch) in height on packages having a gross weight of more than 30 kg (66 pounds); or

(2) At least 6 mm (0.25 inch) on packages having a gross weight of 30 kg (66 pounds) or less, except that smaller font may be used as necessary to fit package dimensions.

f. Except when contained in equipment, each package containing more than 24 lithium cells or 12 lithium batteries must be:

(1) Marked to indicate that it contains lithium batteries, and special procedures should be followed if the package is damaged;

(2) Accompanied by a document indicating that the package contains lithium batteries and special procedures should be followed if the package is damaged;

(3) Capable of withstanding a 1.2 meter drop test in any orientation without damage to cells or batteries contained in the package, without shifting of the contents that would allow short circuiting and without release of package contents; and

(4) Gross weight of the package may not exceed 30 kg (66 pounds). This requirement does not apply to lithium cells or batteries packed with equipment.

g. Electrical devices must conform to §173.21 of this subchapter; and

h. A written report submitted, retained, and updated in accordance with §171.16 is required if a fire, violent rupture, explosion or dangerous evolution of heat (*i.e.* , an amount of heat sufficient to be dangerous to packaging or personal safety to include charring of packaging, melting of packaging, scorching of packaging, or other evidence) occurs as a direct result of a lithium battery or battery-powered device.

190 Until the effective date of the standards set forth in Special Provision 189, medium lithium cells or batteries, including cells or batteries packed with or contained in equipment, are not subject to any other requirements of this subchapter if they meet all of the following:

a. *Primary lithium batteries and cells* . (1) Primary lithium batteries and cells are forbidden for transport aboard passenger-carrying aircraft. The outside of each package that contains primary (nonrechargeable) lithium batteries or cells must be marked “PRIMARY LITHIUM BATTERIES—FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT” or “LITHIUM METAL BATTERIES—FORBIDDEN FOR TRANSPORT ABOARD PASSENGER AIRCRAFT” on a background of contrasting color. The letters in the marking must be:

(i) At least 12 mm (0.5 inch) in height on packages having a gross weight of more than 30 kg (66 pounds); or

(ii) At least 6 mm (0.25 inch) on packages having a gross weight of 30 kg (66 pounds) or less, except that smaller font may be used as necessary to fit package dimensions; and

(2) The provisions of paragraph (a)(1) do not apply to packages that contain 5 kg (11 pounds) net weight or less of primary lithium batteries or cells that are contained in or packed with equipment and the package contains no more than the number of lithium batteries or cells necessary to power the piece of equipment.

b. The lithium content of each cell, when fully charged, is not more than 5 grams.

c. The aggregate lithium content of each battery, when fully charged, is not more than 25 grams.

d. The cells or batteries are of a type proven to meet the requirements of each test in the UN Manual of Tests and Criteria (IBR; see §171.7 of this subchapter). A cell or battery and equipment containing a cell or battery that was first transported prior to January 1, 2006 and is of a type proven to meet the criteria of Class 9 by testing in accordance with the tests in the UN Manual of Tests and Criteria, Third Revised Edition, 1999, need not be retested.

e. Cells or batteries are separated so as to prevent short circuits and are packed in a strong outer packaging or are contained in equipment.

f. Electrical devices must conform to §173.21 of this subchapter.

198 Nitrocellulose solutions containing not more than 20% nitrocellulose may be transported as paint or printing ink, as applicable. See UN1210, UN1263, UN3066, UN3469, and UN3470.

237 “Batteries, dry, containing potassium hydroxide solid, *electric storage* ” must be prepared and packaged in accordance with the requirements of §173.159(a), (b), and (c). For transportation by aircraft, the provisions of §173.159(b)(2) are applicable.

332 Magnesium nitrate hexahydrate is not subject to the requirements of this subchapter.

335 Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as “Environmentally hazardous substances, solid, n.o.s.,” UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leakproof when used as bulk packaging.

Code/Special Provisions – “N” codes apply to non-bulk packaging

N3 Glass inner packagings are permitted in combination or composite packagings only if the hazardous material is free from hydrofluoric acid.

N4 For combination or composite packagings, glass inner packagings, other than ampoules, are not permitted.

N5 Glass materials of construction are not authorized for any part of a packaging which is normally in contact with the hazardous material.

N6 Battery fluid packaged with electric storage batteries, wet or dry, must conform to the packaging provisions of §173.159 (g) or (h) of this subchapter.

N7 The hazard class or division number of the material must be marked on the package in accordance with §172.302 of this subchapter. However, the hazard label corresponding to the hazard class or division may be substituted for the marking.

N8 Nitroglycerin solution in alcohol may be transported under this entry only when the solution is packed in metal cans of not more than 1 L capacity each, overpacked in a wooden box containing not more than 5 L. Metal cans must be completely surrounded with absorbent cushioning material. Wooden boxes must be completely lined with a suitable material impervious to water and nitroglycerin.

N11 This material is excepted for the specification packaging requirements of this subchapter if the material is packaged in strong, tight non-bulk packaging meeting the requirements of subparts A and B of part 173 of this subchapter.

N12 Plastic packagings are not authorized.

N20 A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle.

N25 Steel single packagings are not authorized.

N32 Aluminum materials of construction are not authorized for single packagings.

N33 Aluminum drums are not authorized.

N34 Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material.

N36 Aluminum or aluminum alloy construction materials are permitted only for halogenated hydrocarbons that will not react with aluminum.

N37 This material may be shipped in an integrally-lined fiber drum (1G) which meets the general packaging requirements of subpart B of part 173 of this subchapter, the requirements of part 178 of this subchapter at the packing group assigned for the material and to any other special provisions of column 7 of the §172.101 table.

N40 This material is not authorized in the following packagings:

- a. A combination packaging consisting of a 4G fiberboard box with inner receptacles of glass or earthenware;
- b. A single packaging of a 4C2 sift-proof, natural wood box; or
- c. A composite packaging 6PG2 (glass, porcelain or stoneware receptacles within a fiberboard box).

N41 Metal construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material.

N42 1A1 drums made of carbon steel with thickness of body and heads of not less than 1.3 mm (0.050 inch) and with a corrosion-resistant phenolic lining are authorized for stabilized benzyl chloride if tested and certified to the Packing Group I performance level at a specific gravity of not less than 1.8.

N43 Metal drums are permitted as single packagings only if constructed of nickel or monel.

N45 Copper cartridges are authorized as inner packagings if the hazardous material is not in dispersion.

N65 Outage must be sufficient to prevent cylinders or spheres from becoming liquid full at 55 °C (130 °F). The vacant space (outage) may be charged with a nonflammable nonliquefied compressed gas if the pressure in the cylinder or sphere at 55 °C (130 °F) does not exceed 125 percent of the marked service pressure.

N72 Packagings must be examined by the Bureau of Explosives and approved by the Associate Administrator.

N73 Packagings consisting of outer wooden or fiberboard boxes with inner glass, metal or other strong containers; metal or fiber drums; kegs or barrels; or strong metal cans are authorized and need not conform to the requirements of part 178 of this subchapter.

N74 Packages consisting of tightly closed inner containers of glass, earthenware, metal or polyethylene, capacity not over 0.5 kg (1.1 pounds) securely cushioned and packed in outer wooden barrels or wooden or fiberboard boxes, not over 15 kg (33 pounds) net weight, are authorized and need not conform to the requirements of part 178 of this subchapter.

N75 Packages consisting of tightly closed inner packagings of glass, earthenware or metal, securely cushioned and packed in outer wooden barrels or wooden or fiberboard boxes, capacity not over 2.5 kg (5.5 pounds) net weight, are authorized and need not conform to the requirements of part 178 of this subchapter.

N76 For materials of not more than 25 percent active ingredient by weight, packages consisting of inner metal packagings not greater than 250 mL (8 ounces) capacity each, packed in strong outer packagings together with sufficient absorbent material to completely absorb the liquid contents are authorized and need not conform to the requirements of part 178 of this subchapter.

N77 For materials of not more than two percent active ingredients by weight, packagings need not conform to the requirements of part 178 of this subchapter, if liquid contents are absorbed in an inert material.

N78 Packages consisting of inner glass, earthenware, or polyethylene or other nonfragile plastic bottles or jars not over 0.5 kg (1.1 pounds) capacity each, or metal cans not over five pounds capacity each, packed in outer wooden boxes, barrels or kegs, or fiberboard boxes are authorized and need not conform to the requirements of part 178 of this subchapter. Net weight of contents in fiberboard boxes may not exceed 29 kg (64 pounds). Net weight of contents in wooden boxes, barrels or kegs may not exceed 45 kg (99 pounds).

N79 Packages consisting of tightly closed metal inner packagings not over 0.5 kg (1.1 pounds) capacity each, packed in outer wooden or fiberboard boxes, or wooden barrels, are authorized and need not conform to the requirements of part 178 of this subchapter. Net weight of contents may not exceed 15 kg (33 pounds).

N80 Packages consisting of one inner metal can, not over 2.5 kg (5.5 pounds) capacity, packed in an outer wooden or fiberboard box, or a wooden barrel, are authorized and need not conform to the requirements of part 178 of this subchapter.

N82 See §173.115 of this subchapter for classification criteria for flammable aerosols.

N83 This material may not be transported in quantities of more than 11.5 kg (25.4 lbs) per package.

N84 The maximum quantity per package is 500 g (1.1 lbs.).

N85 Packagings certified at the Packing Group I performance level may not be used.

N86 UN pressure receptacles made of aluminum alloy are not authorized.

N87 The use of copper valves on UN pressure receptacles is prohibited.

N88 Any metal part of a UN pressure receptacle in contact with the contents may not contain more than 65% copper, with a tolerance of 1%.

N89 When steel UN pressure receptacles are used, only those bearing the "H" mark are authorized.

N90 Metal packagings are not authorized.

Appendix A to 172.101

List of Hazardous Substances and Reportable Quantities (RQ)

This Appendix lists materials and their corresponding reportable quantities (RQ) that are listed or designated as “Hazardous Substances” and are further regulated by other federal and state authorities. This list contains only substances with a one (1) or ten (10) pound RQ rating. Please refer to 49CFR 172.101 Appendix A for materials with higher RQ ratings. This list **does not** include radionuclides. FedEx Ground does not accept packages that have a net weight equal to or more than the applicable RQ number. Except for those materials listed in the FedEx Ground Hazardous Material Table by name, the material may not be regulated if the material has a net weight prepackage less than the RQ rating. It is the shipper’s responsibility to determine if their material, when packaged, meets or exceeds the RQ rating.

Hazardous substance	Reportable Quantity (RQ) in pounds (kilograms)
Acetamide, N-9H-fluoren-2-yl-	1 (0.454)
Acetic acid, fluoro-, sodium salt	10 (4.54)
Acetic acid, lead(2+) salt	10 (4.54)
Acetone cyanohydrin	10 (4.54)
2-Acetylaminofluorene	1 (0.454)
Acrolein	1 (0.454)
Aldicarb	1 (0.454)
Aldrin	1 (0.454)
4-Aminobiphenyl	1 (0.454)
Amitrole	10 (4.54)
Ammonium bichromate	10 (4.54)
Ammonium chromate	10 (4.54)
Ammonium dichromate [@]	10 (4.54)
Ammonium picrate	10 (4.54)
Argentate(1-), bis(cyano-C)-, potassium	1 (0.454)
Aroclor 1016	1 (0.454)
Aroclor 1221	1 (0.454)
Aroclor 1232	1 (0.454)
Aroclor 1242	1 (0.454)
Aroclor 1248	1 (0.454)
Aroclor 1254	1 (0.454)
Aroclor 1260	1 (0.454)
Aroclors	1 (0.454)
Arsenic ^e	1 (0.454)
Arsenic acid H ₃ AsO ₄	1 (0.454)
Arsenic disulfide	1 (0.454)
Arsenic oxide As ₂ O ₃	1 (0.454)
Arsenic oxide As ₂ O ₅	1 (0.454)
Arsenic pentoxide	1 (0.454)

Arsenic trichloride	1 (0.454)
Arsenic trioxide	1 (0.454)
Arsenic trisulfide	1 (0.454)
Arsine, diethyl-	1 (0.454)
Arsinic acid, dimethyl-	1 (0.454)
Arsonous dichloride, phenyl-	1 (0.454)
Asbestos ^{6c}	1 (0.454)
Azaserine	1 (0.454)
Aziridine	1 (0.454)
Aziridine, 2-methyl-	1 (0.454)
Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[[(aminocarbonyl)oxy]methyl]-1,1a,2,8,8a,8b-hexahydro-8a- methoxy-5-methyl-, [1aS-(1aalpha,8beta,8aalpha, 8balph)]-	10 (4.54)
Barban	10 (4.54)
Barium cyanide	10 (4.54)
Benomyl	10 (4.54)
Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-	10 (4.54)
Benz[a]anthracene	10 (4.54)
1,2-Benzanthracene	10 (4.54)
Benz[a]anthracene, 7,12-dimethyl-	1 (0.454)
Benzenamine, N,N-dimethyl-4-(phenylazo)-	10 (4.54)
Benzenamine, 4,4'-methylenebis[2-chloro-	10 (4.54)
Benzene	10 (4.54)
Benzeneacetic acid, 4-chloro- α -(4-chlorophenyl)- α -hydroxy-, ethyl ester	10 (4.54)
Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-	10 (4.54)
Benzenediamine, ar-methyl-	10 (4.54)
1,2-Benzenedicarboxylic acid, dibutyl ester	10 (4.54)
Benzene, 1,1'-(2,2-dichloroethylidene) bis[4-chloro-	1 (0.454)
Benzene, hexachloro-	10 (4.54)
Benzene, 1-methyl-2,4-dinitro-	10 (4.54)
Benzene, pentachloro-	10 (4.54)
Benzene, 1,1'-(2,2,2-trichloroethylidene) bis[4-chloro-	1 (0.454)
Benzene, 1,1'-(2,2,2-trichloroethylidene) bis[4-methoxy-	1 (0.454)
Benzene, (trichloromethyl)-	10 (4.54)
Benzene, 1,3,5-trinitro-	10 (4.54)
Benzidine	1 (0.454)
Benzo[a]anthracene	10 (4.54)
1,3-Benzodioxole, 5-propyl-	10 (4.54)
Benzo[b]fluoranthene	1 (0.454)
7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-	10 (4.54)
7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate	10 (4.54)
Benzo[rs]pentaphene	10 (4.54)
Benzo[a]pyrene	1 (0.454)
3,4-Benzopyrene	1 (0.454)
p-Benzoquinone	10 (4.54)
Benzotrichloride	10 (4.54)
Beryllium ⁶	10 (4.54)

Beryllium chloride	1 (0.454)
Beryllium fluoride	1 (0.454)
Beryllium nitrate	1 (0.454)
Beryllium powder ⁶	10 (4.54)
alpha-BHC	10 (4.54)
beta-BHC	1 (0.454)
delta-BHC	1 (0.454)
gamma-BHC	1 (0.454)
2,2'-Bioxirane	10 (4.54)
[1,1'-Biphenyl]-4,4'-diamine	1 (0.454)
[1,1'-Biphenyl]-4,4'-diamine,3,3'-dichloro-	1 (0.454)
[1,1'-Biphenyl]-4,4'-diamine,3,3'-dimethyl-	10 (4.54)
Bis(2-chloroethyl) ether	10 (4.54)
Bis(chloromethyl) ether	10 (4.54)
1,3-Butadiene	10 (4.54)
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	1 (0.454)
1-Butanamine, N-butyl-N-nitroso-	10 (4.54)
2-Butanone peroxide	10 (4.54)
2-Butene, 1,4-dichloro-	1 (0.454)
2-Butenoic acid, 2-methyl-, 7-[[[2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy] methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester, [1S-[1alpha(Z), 7(2S*,3R*),7aalpha]]-	10 (4.54)
n-Butyl phthalate	10 (4.54)
Cacodylic acid	1 (0.454)
Cadmium ⁶	10 (4.54)
Cadmium acetate	10 (4.54)
Cadmium bromide	10 (4.54)
Cadmium chloride	10 (4.54)
Calcium arsenate	1 (0.454)
Calcium arsenite	1 (0.454)
Calcium carbide	10 (4.54)
Calcium chromate	10 (4.54)
Calcium cyanide Ca(CN) ₂	10 (4.54)
Calcium hypochlorite	10 (4.54)
Captan	10 (4.54)
Carbamic acid, 1H-benzimidazol-2-yl, methyl ester	10 (4.54)
Carbamic acid, [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester	10 (4.54)
Carbamic acid, (3-chlorophenyl)-, 4-chloro-2-butynyl ester	10 (4.54)
Carbamic acid, dimethyl-, 1-[(dimethyl-amino)carbonyl]-5-methyl-1H-pyrazol-3-yl ester	1 (0.454)
Carbamic acid, methylnitroso-, ethyl ester	1 (0.454)
Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)] bis-, dimethyl ester	10 (4.54)
Carbamic chloride, dimethyl-	1 (0.454)
Carbendazim	10 (4.54)
Carbofuran	10 (4.54)
Carbofuran phenol	10 (4.54)

Carbonic dichloride	10 (4.54)
Carbon tetrachloride	10 (4.54)
Chlorambucil	10 (4.54)
Chlordane	1 (0.454)
Chlordane, alpha & gamma isomers	1 (0.454)
CHLORDANE (TECHNICAL MIXTURE AND METABOLITES)	1 (0.454)
Chlorinated camphene	1 (0.454)
Chlorine	10 (4.54)
Chlorobenzilate	10 (4.54)
Chloroform	10 (4.54)
Chloromethyl methyl ether	10 (4.54)
Chlorpyrifos	1 (0.454)
Chromic acid	10 (4.54)
Chromic acid H ₂ CrO ₄ , calcium salt	10 (4.54)
Coke Oven Emissions	1 (0.454)
Copper chloride [@]	10 (4.54)
Copper cyanide Cu(CN)	10 (4.54)
Coumaphos	10 (4.54)
Creosote	1 (0.454)
m-Cumenyl methylcarbamate	10 (4.54)
Cupric acetoarsenite	1 (0.454)
Cupric chloride	10 (4.54)
Cupric sulfate	10 (4.54)
Cyanides (soluble salts and complexes) not otherwise specified	10 (4.54)
Cyanogen chloride (CN)Cl	10 (4.54)
2,5-Cyclohexadiene-1,4-dione	10 (4.54)
Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1 α , 2 α , 3 β -, 4 α , 5 α , 6 β)	1 (0.454)
1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	10 (4.54)
Cyclophosphamide	10 (4.54)
Daunomycin	10 (4.54)
DDD	1 (0.454)
4,4'-DDD	1 (0.454)
DDE (72-55-9) [#]	1 (0.454)
4,4'-DDE	1 (0.454)
DDT	1 (0.454)
4,4'-DDT	1 (0.454)
Diazinon	1 (0.454)
Dibenz[a,h]anthracene	1 (0.454)
1,2:5,6-Dibenzanthracene	1 (0.454)
Dibenzo[a,h]anthracene	1 (0.454)
Dibenzo[a,i]pyrene	10 (4.54)
1,2-Dibromo-3-chloropropane	1 (0.454)
Dibromoethane	1 (0.454)
Dibutyl phthalate	10 (4.54)
Di-n-butyl phthalate	10 (4.54)
Dichlone	1 (0.454)
3,3'-Dichlorobenzidine	1 (0.454)
1,4-Dichloro-2-butene	1 (0.454)

Dichloroethyl ether	10 (4.54)
Dichloromethyl ether	10 (4.54)
Dichlorophenylarsine	1 (0.454)
Dichlorvos	10 (4.54)
Dicofol	10 (4.54)
Dieldrin	1 (0.454)
1,2:3,4-Diepoxybutane	10 (4.54)
Diethylarsine	1 (0.454)
N,N'-Diethylhydrazine	10 (4.54)
Diethylstilbestrol	1 (0.454)
Diethyl sulfate	10 (4.54)
Dihydrosafrole	10 (4.54)
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4beta, 5alpha, 8alpha, 8beta)-	1 (0.454)
2,7:3,6-Dimethanonaphth[2,3-b]oxirene,3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha, 2beta, 2alpha, 3beta, 6beta, 6alpha, 7beta, 7alpha)-	1 (0.454)
2,7:3,6-Dimethanonaphth[2, 3-b]oxirene,3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1alpha, 2beta, 2beta, 3alpha, 6alpha, 6beta, 7beta, 7alpha)-, & metabolites	1 (0.454)
Dimethoate	10 (4.54)
Dimethyl aminoazobenzene	10 (4.54)
p-Dimethylaminoazobenzene	10 (4.54)
7,12-Dimethylbenz[a]anthracene	1 (0.454)
3,3'-Dimethylbenzidine	10 (4.54)
alpha,alpha-Dimethylbenzylhydroperoxide	10 (4.54)
Dimethylcarbamoyl chloride	1 (0.454)
1,1-Dimethylhydrazine	10 (4.54)
1,2-Dimethylhydrazine	1 (0.454)
Dimethylhydrazine, unsymmetrical [®]	10 (4.54)
Dimetilan	1 (0.454)
4,6-Dinitro-o-cresol, and salts	10 (4.54)
Dinitrogen tetroxide [®]	10 (4.54)
Dinitrophenol	10 (4.54)
2,4-Dinitrophenol	10 (4.54)
Dinitrotoluene	10 (4.54)
2,4-Dinitrotoluene	10 (4.54)
1,2-Diphenylhydrazine	10 (4.54)
Diphosphoric acid, tetraethyl ester	10 (4.54)
Di-n-propylnitrosamine	10 (4.54)
Disulfoton	1 (0.454)
Endosulfan	1 (0.454)
alpha-Endosulfan	1 (0.454)
beta-Endosulfan	1 (0.454)
Endosulfan sulfate	1 (0.454)
Endrin	1 (0.454)
Endrin aldehyde	1 (0.454)

Endrin, & metabolites	1 (0.454)
Ethanamine, N-ethyl-N-nitroso-	1 (0.454)
Ethane, 1,2-dibromo-	1 (0.454)
Ethane, 1,1'-oxybis[2-chloro-	10 (4.54)
Ethane, pentachloro-	10 (4.54)
Ethanethioamide	10 (4.54)
Ethanol, 2,2'-(nitrosoimino)bis-	1 (0.454)
Ethene, chloro-	1 (0.454)
Ethion	10 (4.54)
Ethyl cyanide	10 (4.54)
Ethylene dibromide	1 (0.454)
Ethylene oxide	10 (4.54)
Ethylenethiourea	10 (4.54)
Ethylenimine	1 (0.454)
Ethyl methanesulfonate	1 (0.454)
Fluorine	10 (4.54)
Fluoroacetic acid, sodium salt	10 (4.54)
Fulminic acid, mercury(2+)salt	10 (4.54)
Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-, D-	1 (0.454)
D-Glucose, 2-deoxy-2-[[[(methylnitrosoamino)-carbonyl]amino]-	1 (0.454)
Glycidylaldehyde	10 (4.54)
Guanidine, N-methyl-N'-nitro-N-nitroso-	10 (4.54)
Guthion	1 (0.454)
Heptachlor	1 (0.454)
Heptachlor epoxide	1 (0.454)
Hexachlorobenzene	10 (4.54)
Hexachlorobutadiene	1 (0.454)
Hexachlorocyclopentadiene	10 (4.54)
Hexamethylphosphoramide	1 (0.454)
Hydrazine	1 (0.454)
Hydrazine, 1,2-diethyl-	10 (4.54)
Hydrazine, 1,1-dimethyl-	10 (4.54)
Hydrazine, 1,2-dimethyl-	1 (0.454)
Hydrazine, 1,2-diphenyl-	10 (4.54)
Hydrazine, methyl-	10 (4.54)
Hydrocyanic acid	10 (4.54)
Hydrogen cyanide	10 (4.54)
Hydroperoxide, 1-methyl-1-phenylethyl-	10 (4.54)
2-Imidazolidinethione	10 (4.54)
Isodrin	1 (0.454)
3-Isopropylphenyl N-methylcarbamate	10 (4.54)
Kepone	1 (0.454)
Lasiocarpine	10 (4.54)
Lead ^e	10 (4.54)
Lead acetate	10 (4.54)
Lead arsenate	1 (0.454)
Lead, bis(acetato-O)tetrahydroxytri-	10 (4.54)
Lead chloride	10 (4.54)

Lead fluoborate	10 (4.54)
Lead fluoride	10 (4.54)
Lead iodide	10 (4.54)
Lead nitrate	10 (4.54)
Lead phosphate	10 (4.54)
Lead stearate	10 (4.54)
Lead subacetate	10 (4.54)
Lead sulfate	10 (4.54)
Lead sulfide	10 (4.54)
Lead thiocyanate	10 (4.54)
Lindane	1 (0.454)
Lindane (all isomers)	1 (0.454)
Lithium chromate	10 (4.54)
Manganese, bis(dimethylcarbamodithioato-S,S')-	10 (4.54)
Manganese dimethyldithiocarbamate	10 (4.54)
Melphalan	1 (0.454)
Mercaptodimethur	10 (4.54)
Mercuric cyanide	1 (0.454)
Mercuric nitrate	10 (4.54)
Mercuric sulfate	10 (4.54)
Mercuric thiocyanate	10 (4.54)
Mercurous nitrate	10 (4.54)
Mercury	1 (0.454)
Mercury fulminate	10 (4.54)
Methanamine, N-methyl-N-nitroso-	10 (4.54)
Methane, chloromethoxy-	10 (4.54)
Methane, isocyanato-	10 (4.54)
Methane, oxybis(chloro-	10 (4.54)
Methanesulfonic acid, ethyl ester	1 (0.454)
Methane, tetrachloro-	10 (4.54)
Methane, tetranitro-	10 (4.54)
Methane, trichloro-	10 (4.54)
6,9-Methano-2,4,3-benzodioxathiepin,6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide	1 (0.454)
4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	1 (0.454)
4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	1 (0.454)
1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-	1 (0.454)
Methiocarb	10 (4.54)
Methoxychlor	1 (0.454)
2-Methyl aziridine	1 (0.454)
Methyl chloromethyl ether [®]	10 (4.54)
3-Methylcholanthrene	10 (4.54)
4,4'-Methylenebis(2-chloroaniline)	10 (4.54)
4,4'-Methylenedianiline	10 (4.54)
Methyl ethyl ketone peroxide	10 (4.54)

Methyl hydrazine	10 (4.54)
Methyl isocyanate	10 (4.54)
2-Methylactonitrile	10 (4.54)
Methylthiouracil	10 (4.54)
Mevinphos	10 (4.54)
Mitomycin C	10 (4.54)
MNNG	10 (4.54)
Naled	10 (4.54)
5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy-alpha-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-	10 (4.54)
2-Naphthalenamine	10 (4.54)
2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl-(1,1'-biphenyl)-4,4'-diyl)-bis(azo)]bis(5-amino-4-hydroxy)-tetrasodium salt	10 (4.54)
beta-Naphthylamine	10 (4.54)
Nickel carbonyl Ni(CO) ₄ , (T-4)-	10 (4.54)
Nickel cyanide Ni(CN) ₂	10 (4.54)
Nickel hydroxide	10 (4.54)
Nitric oxide	10 (4.54)
4-Nitrobiphenyl	10 (4.54)
Nitrogen dioxide	10 (4.54)
Nitrogen oxide NO	10 (4.54)
Nitrogen oxide NO ₂	10 (4.54)
Nitroglycerine	10 (4.54)
2-Nitropropane	10 (4.54)
N-Nitrosodi-n-butylamine	10 (4.54)
N-Nitrosodiethanolamine	1 (0.454)
N-Nitrosodiethylamine	1 (0.454)
N-Nitrosodimethylamine	10 (4.54)
N-Nitroso-N-ethylurea	1 (0.454)
N-Nitroso-N-methylurea	1 (0.454)
N-Nitroso-N-methylurethane	1 (0.454)
N-Nitrosomethylvinylamine	10 (4.54)
N-Nitrosomorpholine	1 (0.454)
N-Nitrosopiperidine	10 (4.54)
N-Nitrosopyrrolidine	1 (0.454)
1,2-Oxathiolane, 2,2-dioxide	10 (4.54)
2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl) tetrahydro-, 2-oxide	10 (4.54)
Oxirane	10 (4.54)
Oxiranecarboxyaldehyde	10 (4.54)
Parathion	10 (4.54)
PCBs	1 (0.454)
Pentachlorobenzene	10 (4.54)
Pentachloroethane	10 (4.54)
Pentachlorophenol	10 (4.54)
Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)	1 (0.454)
Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate	10 (4.54)

Phenol, 2,4-dinitro-	10 (4.54)
Phenol, 2-methyl-4,6-dinitro-, & salts	10 (4.54)
Phenol, 3-(1-methylethyl)-, methyl carbamate	10 (4.54)
Phenol, pentachloro-	10 (4.54)
Phenol, 2,3,4,6-tetrachloro-	10 (4.54)
Phenol, 2,4,5-trichloro-	10 (4.54)
Phenol, 2,4,6-trichloro-	10 (4.54)
Phenol, 2,4,6-trinitro-, ammonium salt	10 (4.54)
L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-	1 (0.454)
Phorate	10 (4.54)
Phosgene	10 (4.54)
Phosphoric acid, lead(2+) salt (2:3)	10 (4.54)
Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester	1 (0.454)
Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester	10 (4.54)
Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester	10 (4.54)
Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester	10 (4.54)
Phosphorus	1 (0.454)
Piperidine, 1-nitroso-	10 (4.54)
Plumbane, tetraethyl-	10 (4.54)
POLYCHLORINATED BIPHENYLS	1 (0.454)
Potassium arsenate	1 (0.454)
Potassium arsenite	1 (0.454)
Potassium bichromate	10 (4.54)
Potassium chromate	10 (4.54)
Potassium cyanide K(CN)	10 (4.54)
Potassium silver cyanide	1 (0.454)
Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl] oxime	1 (0.454)
1-Propanamine, N-nitroso-N-propyl-	10 (4.54)
Propane, 1,2-dibromo-3-chloro-	1 (0.454)
Propanenitrile	10 (4.54)
Propanenitrile, 2-hydroxy-2-methyl-	10 (4.54)
Propane, 2-nitro-	10 (4.54)
1,3-Propane sultone	10 (4.54)
1,2,3-Propanetriol, trinitrate	10 (4.54)
1-Propanol, 2,3-dibromo-, phosphate (3:1)	10 (4.54)
Propargite	10 (4.54)
2-Propenal	1 (0.454)
beta-Propiolactone	10 (4.54)
1,2-Propylenimine	1 (0.454)
Pyrethrins	1 (0.454)
2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-	10 (4.54)
4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-	10 (4.54)
Pyrrolidine, 1-nitroso-	1 (0.454)
Quinone	10 (4.54)
RADIONUCLIDES	See Table 2
Selenious acid	10 (4.54)
Selenium dioxide	10 (4.54)

Selenium oxide	10 (4.54)
Selenium sulfide SeS ₂	10 (4.54)
L-Serine, diazoacetate (ester)	1 (0.454)
Silver cyanide Ag(CN)	1 (0.454)
Silver nitrate	1 (0.454)
Sodium	10 (4.54)
Sodium arsenate	1 (0.454)
Sodium arsenite	1 (0.454)
Sodium bichromate	10 (4.54)
Sodium chromate	10 (4.54)
Sodium cyanide Na(CN)	10 (4.54)
Streptozotocin	1 (0.454)
Strontium chromate	10 (4.54)
Strychnidin-10-one, & salts	10 (4.54)
Strychnine, & salts	10 (4.54)
TCDD	1 (0.454)
TDE	1 (0.454)
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1 (0.454)
2,3,4,6-Tetrachlorophenol	10 (4.54)
Tetraethyl pyrophosphate	10 (4.54)
Tetraethyl lead	10 (4.54)
Tetranitromethane	10 (4.54)
Thioacetamide	10 (4.54)
Thioperoxydicarbonic diamide [(H ₂ N)C(S)] ₂ S ₂ , tetramethyl-	10 (4.54)
Thiophanate-methyl	10 (4.54)
Thiourea	10 (4.54)
Thiram	10 (4.54)
Toluenediamine	10 (4.54)
2,4-Toluene diamine	10 (4.54)
Toxaphene	1 (0.454)
1H-1,2,4-Triazol-3-amine	10 (4.54)
Trichlorophenol	10 (4.54)
2,4,5-Trichlorophenol	10 (4.54)
2,4,6-Trichlorophenol	10 (4.54)
Trifluralin	10 (4.54)
1,3,5-Trinitrobenzene	10 (4.54)
Tris(2,3-dibromopropyl) phosphate	10 (4.54)
Trypan blue	10 (4.54)
Uracil mustard	10 (4.54)
Urea, N-ethyl-N-nitroso-	1 (0.454)
Urea, N-methyl-N-nitroso-	1 (0.454)
Vinylamine, N-methyl-N-nitroso-	10 (4.54)
Vinyl chloride	1 (0.454)
Zinc, bis(dimethylcarbamo-dithioato-S,S')-	10 (4.54)
Zinc cyanide Zn(CN) ₂	10 (4.54)
Ziram	10 (4.54)

<p>∅The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 micrometers (0.004 inches)</p>	
<p>∅∅The RQ for asbestos is limited to friable forms only.</p>	
<p>The @Indicates that the name was added by PHMSA because (1) the name is a synonym for a specific hazardous substance and (2) the name appears in the Hazardous Materials Table as a proper shipping name.</p>	
<p>#To provide consistency with EPA regulations, two entries with different CAS numbers are provided. Refer to the EPA Table 302.4—List of Hazardous Substances and Reportable Quantities for an explanation of the two entries.</p>	



Hazardous Materials Load & Segregation Chart

"We consider safety first in our operation"

X Packages must be segregated with a non-hazardous material package. Packages may not be loaded above, below or together in the same van or trailer.

O Packages may be loaded together if no other means of storage is available in the same van or trailer. Whenever possible, segregate different hazardous material packages with a non-hazardous package

Hazard Label									
	O	O	O	O	O	O	O	O	O
	O	O	O	O	O	O	O	O	O
	O	O	O	O	O	X	O	O	O
	O	O	O	O	O	O	O	X	O
	O	O	O	O	O	O	O	X	O
	O	O	X	O	O	O	O	X	O
	O	O	O	O	O	O	O	X	O
	O	O	O	X	X	X	X	O	O
	O	O	O	O	O	O	O	O	O

DO NOT load more than 999 lb. of hazardous material packages per van or trailer. This requirement does not apply to:

Any package identified on the OP-900 as a "Limited Quantity" or Ltd. Qty.

Class 1 Explosives with different compatibility groups ("B" in this example) must be segregated from other Class 1 explosives by physically loading these packages on separate vehicles. *For example: a Class 1.4S must be placed on another van or trailer if a Class 1.4B package is involved.*



1000 FedEx Drive
Moon Township, Pa. 15108

fedex.com
1.800.GoFedEx 1.800.463.3339