

2022 LITHIUM BATTERY SHIPPING GUIDE



JANUARY 1, 2022

The following guide provides a summary of marking, labeling and paperwork requirements for shipping lithium batteries via domestic US ground (49 CFR 171-180 in effect 1-Jan-2022), international air (2022 IATA DGR, 63rd Edition) and international vessel (IMDG, 40-20). Refer to the regulatory citations provided, country specific regulations and/or operator variations for complete requirements. Employees who perform any pre-transportation functions must have current training certificates. Also see: <u>DISCLAIMER</u>

This guide will be updated as lithium battery regulations change. Please check <u>www.hazmateam.com</u> for the most current version of this document.

TO GET STARTED, CLICK ON THE HOME ICON:





IS MY LITHIUM CELL OR BATTERY UN TESTED?

WHAT SIZE IS MY LITHIUM ION (RECHARGEABLE)

<u>CELL/BATTERY?</u>

SMALL LITHIUM ION CELL/BATTERY

REQUIREMENTS

MEDIUM LITHIUM ION

CELL/BATTERY

REQUIREMENTS

FULLY REGULATED LITHIUM ION CELL/BATTERY REQUIREMENTS

DAMAGED OR DEFECTIVE LITHIUM ION CELL/BATTERY

REQUIREMENTS

WHAT SIZE IS MY LITHIUM METAL (NON-RECHARGEABLE) CELL/BATTERY?

SMALL LITHIUM METAL CELL/BATTERY REQUIREMENTS

MEDIUM LITHIUM METAL CELL/BATTERY REQUIREMENTS

FULLY REGULATED LITHIUM METAL CELL/BATTERY REQUIREMENTS

DAMAGED OR DEFECTIVE LITHIUM METAL CELL/BATTERY REQUIREMENTS

BATTERY-POWERED VEHICLES

IS MY LITHIUM CELL OR BATTERY UN TESTED?

IMPORTANT CLASSIFICATION REQUIREMENT

Except for prototype batteries, each lithium cell or battery (small, medium or fully regulated) must be of the type proven to meet the criteria in part III, sub-section 38.3 of the UN Manual of Tests and Criteria. Lithium cells and batteries are subject to these tests regardless of whether the cells used to construct the battery are of a tested type. <u>Refer</u> to 49 CFR 173.185 (a)

Lithium battery test summary – effective 1 January 2020, manufacturers and subsequent distributors of cells or batteries and equipment powered by cells and batteries manufactured after 30 June 2003 must make available the test summary as specified in the UN Manual of Tests and Criteria, Revision 6 and amend. 1, Part III, sub-section 38.3, paragraph 38.3.5.

For prototypes see <u>49 CFR 173.185 (e)</u>. Prototype batteries must be shipped fully regulated.

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LITHIUM ION CELL & BATTERY SIZE DEFINITIONS

(Lithium Ion Cells and Batteries are Rechargeable; Also called "secondary" batteries)

SIZE & TYPE	AIR TRANSPORT	VESSEL TRANSPORT	DOMESTIC USA GROUND TRANSPORT
	MAXIMUM WATT HOUR RATING	MAXIMUM WATT HOUR RATING	MAXIMUM WATT HOUR RATING
SMALL CELL	20 WH	20 WH	20 WH
SMALL BATTERY	100 WH	100 WH	100 WH
MEDIUM CELL	Not applicable to air transport	Not applicable to vessel transport	60 WH
MEDIUM BATTERY	Not applicable to air transport	Not applicable to vessel transport	300 WH
FULLY REGULATED CELL	> 20 WH	> 20 WH	> 60 WH
FULLY REGULATED BATTERY	> 100 WH	> 100 WH	> 300 WH

"Hybrid" Batteries: containing both lithium ion cells and lithium metal cells must be shipped as UN 3090 or UN 3091, as appropriate. See Lithium Metal Cell & Battery Size Definitions.

Prototype Cells and Batteries (not UN tested): must be shipped Fully Regulated regardless of watt hour rating of battery/cell.

These size definitions do not apply to UN 3171, Battery-Powered Vehicles

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LITHIUM METAL CELL & BATTERY SIZE DEFINITIONS

(Lithium Metal Cells and Batteries are Non-Rechargeable; Also called "primary" batteries)

SIZE & TYPE	AIR TRANSPORT	VESSEL TRANSPORT	DOMESTIC USA GROUND TRANSPORT
	HAVMATEAN	HAZMATEAM	HAZMATEAM
	MAXIMUM AGGREGATE LITHIUM CONTENT ²	MAXIMUM AGGREGATE LITHIUM CONTENT ²	MAXIMUM AGGREGATE LITHIUM CONTENT ²
SMALL CELL	1 GRAM	1 GRAM	1 GRAM
SMALL BATTERY	2 GRAMS ¹	2 GRAMS ¹	2 GRAMS ¹
MEDIUM CELL	Not applicable to air transport	Not applicable to vessel transport	5 GRAMS
MEDIUM BATTERY	Not applicable to air transport	Not applicable to vessel transport	25 GRAMS
FULLY REGULATED CELL	> 1 GRAM	> 1 GRAM	> 5 GRAMS
FULLY REGULATED BATTERY	> 2 GRAMS	> 2 GRAMS	> 25 GRAMS

"Hybrid" Batteries: containing both lithium ion cells and lithium metal cells must be shipped as UN 3090 or UN 3091, as appropriate. Note 1 - A small "hybrid" battery may not contain more than 1.5 g of lithium metal contained within all lithium metal cells and the total capacity of all lithium ion cells contained in the battery shall not exceed 10 Wh. "Hybrid" batteries are not externally charged.

Prototype Cells and Batteries (not UN tested): must be shipped Fully Regulated regardless of lithium metal content per battery/cell.

Note 2 - **Aggregate lithium content:** the sum of the grams of lithium content contained by the cells comprising a battery.

These size definitions do not apply to UN 3171, Battery-Powered Vehicles

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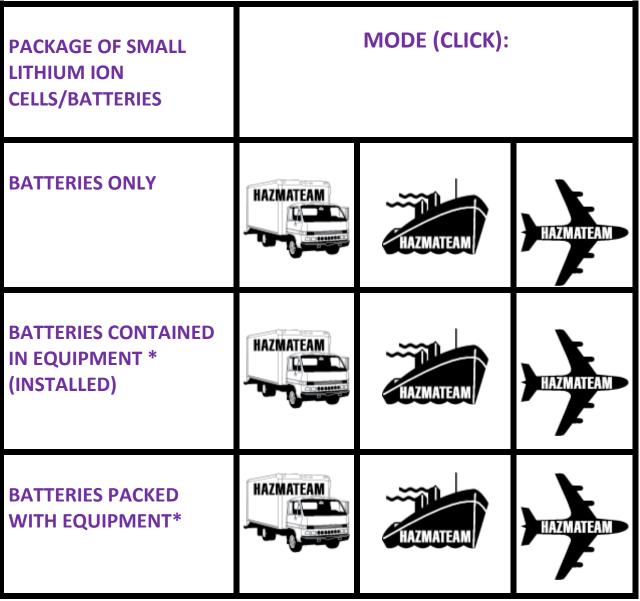




SMALL LITHIUM ION

CELL/BATTERY

REQUIREMENTS



• *Equipment* means the device or apparatus for which the lithium cells or batteries will provide electrical power for its operation





WHAT SIZE IS MY LITHIUM ION (RECHARGEABLE) CELL/BATTERY?

MEDIUM¹ LITHIUM ION

CELL/BATTERY

REQUIREMENTS

PACKAGE OF MEDIUM LITHIUM ION CELLS/BATTERIES	MODE (CLICK):
BATTERIES ONLY	HAZMATEAM
BATTERIES CONTAINED IN EQUIPMENT ² (INSTALLED)	HAZMATEAM
BATTERIES PACKED WITH EQUIPMENT ²	HAZMATEAM

*NOTES:

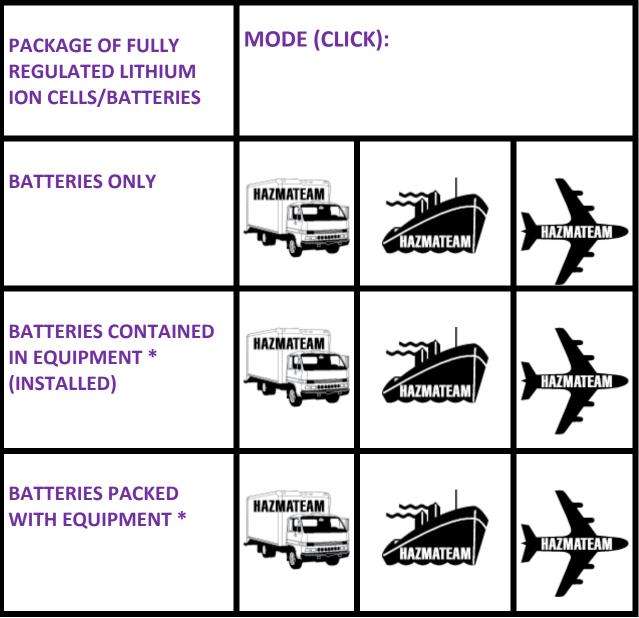
1) MEDIUM BATTERIES IS A DESIGNATION FOR GROUND DOMESTIC USA ONLY

2) Equipment means the device or apparatus for which the lithium cells or batteries will provide electrical power for its operation

NAVIGATE (CLICK):



WHAT SIZE IS MY LITHIUM ION (RECHARGEABLE) CELL/BATTERY? FULLY REGULATED LITHIUM ION CELL/BATTERY REQUIREMENTS



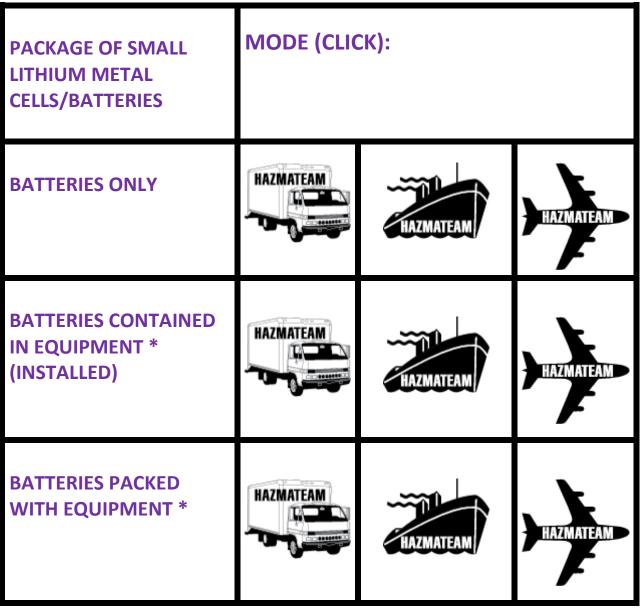
• Equipment means the device or apparatus for which the lithium cells or batteries will provide electrical power for its operation

NAVIGATE (CLICK):



WHAT SIZE IS MY LITHIUM ION (RECHARGEABLE) CELL/BATTERY?

SMALL LITHIUM METAL CELL/BATTERY REQUIREMENTS



• *Equipment* means the device or apparatus for which the lithium cells or batteries will provide electrical power for its operation

NAVIGATE (CLICK):



WHAT SIZE IS MY LITHIUM METAL (NON-RECHARGEABLE) <u>CELL/BATTERY?</u>

MEDIUM¹ LITHIUM METAL CELL/BATTERY REQUIREMENTS

PACKAGE OF MEDIUM LITHIUM METAL CELLS/BATTERIES	MODE (CLICK):
BATTERIES ONLY	HAZMATEAM
BATTERIES CONTAINED IN EQUIPMENT ² (INSTALLED)	HAZMATEAM
BATTERIES PACKED WITH EQUIPMENT ²	HAZMATEAM

NOTES:

1) MEDIUM BATTERIES IS A DESIGNATION FOR GROUND DOMESTIC USA ONLY;

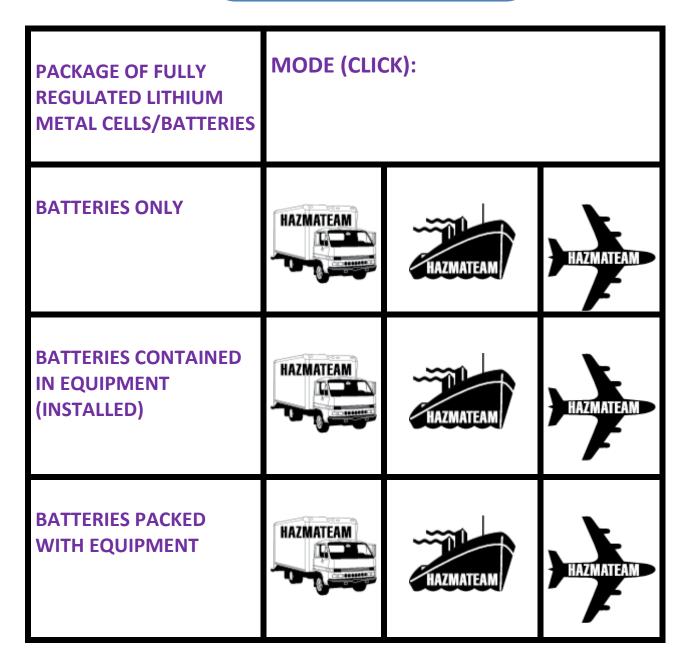
2) Equipment means the device or apparatus for which the lithium cells or batteries will provide electrical power for its operation

NAVIGATE (CLICK):



WHAT SIZE IS MY LITHIUM METAL (NON-RECHARGEABLE) **CELL/BATTERY?**

FULLY REGULATED LITHIUM METAL CELL/BATTERY REQUIREMENTS



NAVIGATE (CLICK):



WHAT SIZE IS MY LITHIUM METAL (NON-RECHARGEABLE) CELL/BATTERY?

BATTERY-POWERED VEHICLES

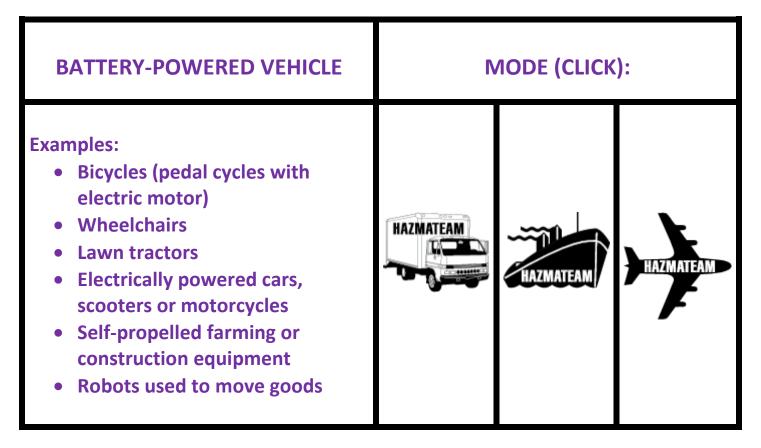
"Battery-Powered Vehicles" are self-propelled apparatus designed to carry one or more persons or goods. In this case some parts of the vehicle may be detached from its frame to fit into the packaging. Reference: 49 CFR 172.102, SP 134.

The information provided in this guide applies to vehicles powered only by a lithium ion or lithium metal battery. If the vehicle is powered by other battery types or fuels, refer to 49 CFR 173.220, IMDG SP 388 & 962 or IATA PI 952, as applicable.

The battery must be UN 38.3 tested and installed in the vehicle. The battery must not be damaged or defective.

If battery is not installed, must ship as "UN 3091, Lithium Metal Batteries Packed with Equipment" or "UN 3481, Lithium Ion Batteries Packed with Equipment", as applicable.

There is no battery size designation (small, medium or fully regulated) for these entries.

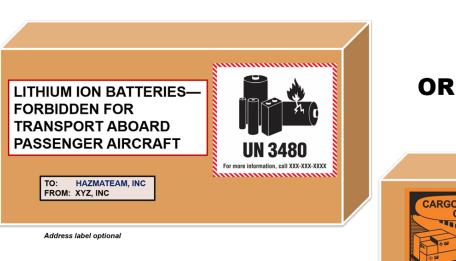




SMALL LITHIUM ION BATTERIES – NO EQUIPMENT



- LITHIUM ION BATTERIES, UN 3480
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- NO EQUIPMENT
- DECLARATION/SHIPPING PAPER: NO
- Limit: 30 KG GROSS WT





Address label optional

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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188







SMALL LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



NET WT OF SMALL BATTERIES PER PACKAGE IS NO MORE THAN 5 KG

- LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- CLICK HERE IF MORE THAN 5 KG NET PER PKG



Address label optional

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REFERENCE:
GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)
VESSEL: IMDG CODE, CHAPTER 3.3, SP 188





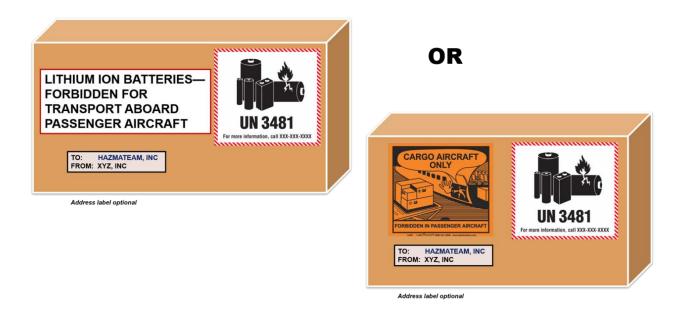


SMALL LITHIUM ION BATTERIES PACKED WITH EQUIPMENT



NET WT OF SMALL BATTERIES PER PACKAGE IS GREATER THAN 5 KG

- LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL (<u>UN Tested</u>)
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- CLICK HERE IF NO MORE THAN 5 KG NET PER PACKAGE



© HAZMATEAM, INC REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188





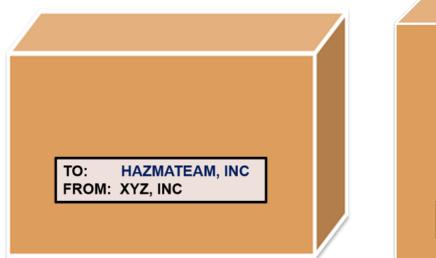
SMALL LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT



NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE

NET WT OF SMALL BATTERIES PER PACKAGE IS NO MORE THAN 5 KG

- LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.
- <u>CLICK HERE IF MORE THAN 5 KG NET PER PACKAGE</u>
- <u>CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED</u>
- <u>CLICK HERE IF LITHIUM ION BUTTON CELLS INSTALLED</u>



Address label optional



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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

IF MORE THAN 2 PACKAGES PER CONSIGNMENT.







SMALL LITHIUM ION BUTTON CELLS CONTAINED IN EQUIPMENT



NET WT OF SMALL BATTERIES PER PACKAGE IS NO MORE THAN 5 KG

- LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- BUTTON CELL INSTALLED IN EQUIPMENT
- DECLARATION/SHIPPING PAPER: NO
- BUTTON CELL INSTALLED IN EQUIPMENT
- NO LIMIT TO THE NUMBER OF BUTTON CELLS INSTALLED, MUST NOT EXCEED 5 KG NET PER PKG
- CLICK HERE IF SMALL LITHIUM ION BATTERY OTHER THAN BUTTON CELL INSTALLED



Button cell or battery means a round small cell or battery when the overall height is less than the diameter.

Address label optional

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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188







SMALL LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT



MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE

NET WT OF BATTERIES PER PACKAGE NO MORE THAN 5 KG

- LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.
- <u>CLICK HERE IF MORE THAN 5 KG NET PACKAGE</u>
- <u>CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE</u>



Address label optional

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REFERENCE:	
GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)	
VESSEL: IMDG CODE, CHAPTER 3.3, SP 188	







SMALL LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

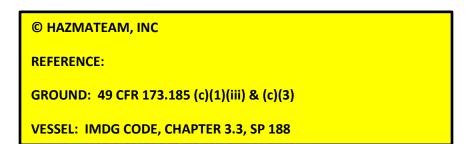


NET WT OF BATTERIES PER PACKAGE GREATER THAN 5 KG

- LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL (<u>UN Tested</u>)
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.
- CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED AND NO MORE THAN 5 KG PER PKG
- CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED AND NO MORE THAN 5 KG PER PKG













SMALL LITHIUM ION BATTERIES - NO EQUIPMENT (PI 965 SECTION IB)

- LITHIUM ION BATTERIES, UN 3480
- AIR TRANSPORT
- NO EQUIPMENT
- PACKAGE CONTAINS ≤ 10 KG net, SMALL LITHIUM ION BATTERIES (<u>UN Tested</u>)
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- STATE OF CHARGE MUST NOT EXCEED 30 % OF RATED DESIGN CAPACITY



Address label mandatory

NET QTY (KG OF BATTERIES) MUST JIVE WITH NET QTY DESCRIBED ON DECLARATION

© HAZMATEAM, INC <u>REFERENCE:</u> DOMESTIC USA: 49 CFR 173.185 (c)(4) INTERNATIONAL AIR: IATA PACKING INSTRUCTION 965, SECTION IB PI 965 SECTION II WAS ELIMINATED 1-JAN-2022

SMALL UN 3480 MUST BE SHIPPED PI 965 SECTION IB OR PI 965 SECTION IA



CELLS AND BATTERIES MUST NOT BE PACKED IN THE SAME OUTER PACKAGING WITH CLASS 1 (OTHER THAN 1.4S), DIV 2.1, CLASS 3, DIV 4.1 or DIV 5.1







SMALL LITHIUM ION BATTERIES PACKED WITH EQUIPMENT

- LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481
- Air TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG
- NO MORE THAN THE MINIMUM NUMBER OF BATTERIES TO POWER THE EQUIPMENT PLUS TWO SPARES.
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.



Address label optional

© HAZMATEAM, INC REFERENCE: DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4) INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 966, SECTION II



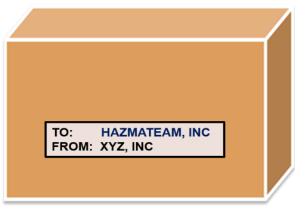




SMALL LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE

- LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481
- Air TRANSPORT (Battery installed)
- BATTERY SIZE: SMALL (UN Tested)
- LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG
- *LIMIT:* NO MORE THAN 4 LITHIUM ION CELLS OR 2 LITHIUM ION BATTERIES ARE INSTALLED OR IF BUTTON CELL BATTERIES ARE INSTALLED.
- DECLARATION/SHIPPING PAPER: NO
- <u>CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED (OTHER THAN BUTTON CELLS)</u>
- <u>CLICK HERE IF SHIPPING BUTTON CELLS INSTALLED IN EQUIPMENT</u>



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IF SHIPPING ONE OR TWO PACKAGES ACCORDING TO PI 967, SECTION II Address label optional

IF SHIPPING MORE THAN TWO PACKAGES ACCORDING TO PI 967, SECTION II

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REFERENCE: DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4) INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 967, SECTION II











SMALL LITHIUM ION BUTTON CELLS CONTAINED IN EQUIPMENT



NO MORE THAN 5 KG NET QTY OF BUTTON CELLS INSTALLED PER PKG

- LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481
- AIR TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- BUTTON CELL INSTALLED IN EQUIPMENT
- DECLARATION/SHIPPING PAPER: NO
- BUTTON CELL INSTALLED IN EQUIPMENT
- NO LIMIT TO THE NUMBER OF BUTTON CELLS INSTALLED, CANNOT EXCEED 5 KG NET PER PACKAGE
- <u>CLICK HERE IF SMALL LITHIUM ION BATTERIES OTHER THAN BUTTON CELLS CONTAINED IN EQUIPMENT</u>

	(/
TO: HAZMATEAM, INC FROM: XYZ, INC	7	
PROM. XT2, INC		

Button cell or battery means a round small cell or battery when the overall height is less than the diameter.

Address label optional

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REFERENCE:

DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4)

INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 967, SECTION II





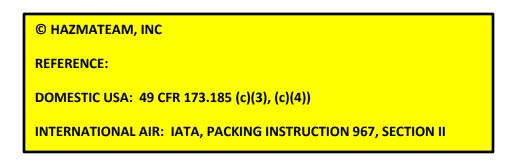
SMALL LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE

- LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481
- Air TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG
- DECLARATION/SHIPPING PAPER: NO
- BATTERY IS INSTALLED.
- <u>CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE</u>



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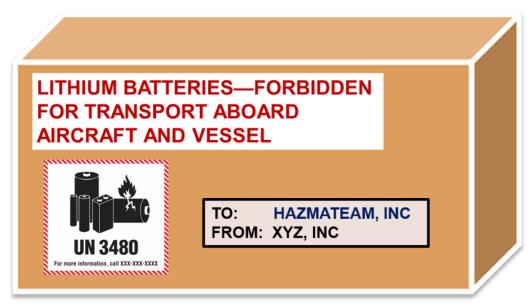




MEDIUM LITHIUM ION BATTERIES – NO EQUIPMENT

- LITHIUM ION BATTERIES, UN 3480
- GROUND ONLY --- DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM (UN Tested)
- NO EQUIPMENT
- DECLARATION/SHIPPING PAPER: NO
- Limit: 30 KG GROSS WT





Address label optional

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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iv), (vi) & (c)(3)



MEDIUM LITHIUM ION BATTERIES PACKED WITH EQUIPMENT

• LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481



- GROUND ONLY --- DOMESTIC USA ONLY
 BATTERY SIZE: MEDIUM (UN Tested)
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.

LITHIUM BATTERIES—FORBIDDEN FOR TRANSPORT ABOARD AIRCRAFT AND VESSEL TO: HAZMATEAM, INC FROM: XYZ, INC UN 3481 For more information, call XXX-XXX-XXXX

Address label optional

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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iv) & (c)(3)

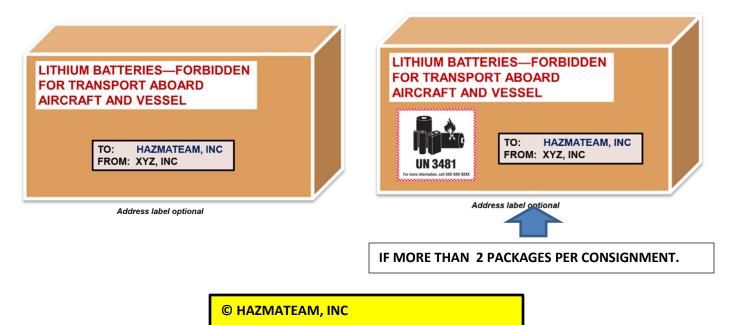


MEDIUM LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED PER PACKAGE



- LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481
- GROUND ONLY --- DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM (UN Tested)
- NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED IN EQUIPMENT OR BUTTON CELLS INSTALLED
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.
- CLICK HERE FOR MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE



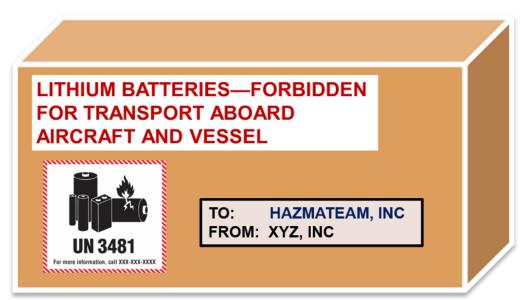
REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iv) & (c)(3)

MEDIUM LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE

- LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481
- GROUND ONLY --- DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM (UN Tested)
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.
- <u>CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE</u>



Address label optional

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REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iv) & (c)(3)









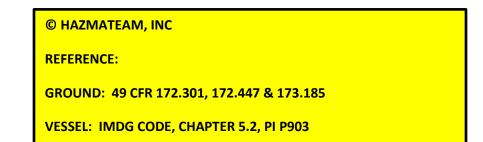
FULLY REGULATED LITHIUM ION BATTERIES – NO EQUIPMENT

- LITHIUM ION BATTERIES, UN 3480
- GROUND AND VESSEL TRANSPORT
- BATTERY SIZE: FULLY REGULATED (UN Tested)
- NO EQUIPMENT
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- Limit: REFER TO PACKAGE CLOSURE INSTRUCTION





Address label: IMDG optional; DOT see 49 CFR 172.301(d)



NAVIGATE (CLICK):







SHIPPING PAPER EXAMPLES

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FULLY REGULATED LITHIUM ION BATTERIES PACKED WITH EQUIPMENT

- LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: FULLY REGULATED (UN Tested)
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- Limit: REFER TO PACKAGE CLOSURE INSTRUCTION





IAZMATEAM

HAZMATEAM

Address label: IMDG optional; DOT see 49 CFR 172.301(d)

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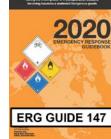
REFERENCE:

GROUND: 49 CFR 172.301, 172.400 (b) & 173.185

VESSEL: IMDG CODE, CHAPTER 5.2, PI P903

NAVIGATE (CLICK):







SHIPPING PAPER EXAMPLES

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FULLY REGULATED LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

- LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: FULLY REGULATED (UN Tested)
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- BATTERY INSTALLED IN EQUIPMENT





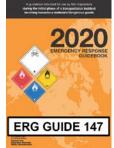


Address label: IMDG optional; DOT see 49 CFR 172.301(d)

© HAZMATEAM, INC <u>REFERENCE:</u> GROUND: 49 CFR 172.301, 172.447 & 173.185 SPEC PKG NOT REQUIRED: 49 CFR 173.185 (b)(4) VESSEL: IMDG CODE, CHAPTER 5.2, PI P903

NAVIGATE (CLICK):







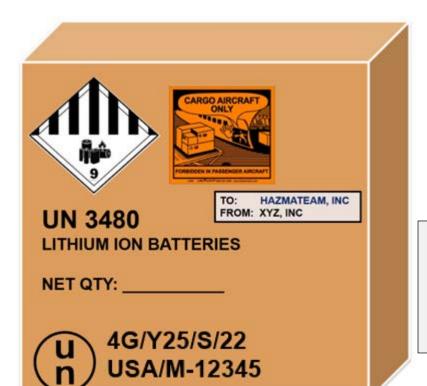
SHIPPING PAPER EXAMPLES

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FULLY REGULATED LITHIUM ION BATTERIES - NO EQUIPMENT (PI 965 SECTION IA)

- LITHIUM ION BATTERIES, UN 3480
- AIR TRANSPORT
- NO EQUIPMENT
- BATTERY SIZE: FULLY REGULATED (UN Tested)
- BATTERY STATE OF CHARGE MUST NOT EXCEED 30 % OF RATED DESIGN CAPACITY
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- FORBIDDEN FOR PASSENGER AIR; MAX NET QTY/PKG CARGO AIRCRAFT = 35 KG
- REFER TO PACKAGE CLOSURE INSTRUCTION





NET QTY (KG OF BATTERIES) MUST JIVE WITH NET QTY DESCRIBED ON DECLARATION CELLS AND BATTERIES MUST NOT BE PACKED IN THE SAME OUTER PACKAGING WITH CLASS 1 (OTHER THAN 1.4S), DIV 2.1, CLASS 3, DIV 4.1 or DIV 5.1

Address label mandatory

© HAZMATEAM, INC

<u>REFERENCE:</u>

DOMESTIC USA: 49 CFR 172.301 & 172.447, 172.402(c), 173.185 INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 965 SECTION IA







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FULLY REGULATED LITHIUM ION BATTERIES PACKED WITH EQUIPMENT

- LITHIUM ION BATTERIES PACKED WITH EQUIPMENT, UN 3481
- AIR TRANSPORT
- BATTERY SIZE: FULLY REGULATED (UN Tested)
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- MAX NET QTY/PKG PASSENGER AIRCRAFT= 5 KG; MAX NET QTY/PKG CARGO AIRCRAFT = 35 KG
- REFER TO PACKAGE CLOSURE INSTRUCTION

		/
	UN 3481	
	LITHIUM ION BATTERIES PACKED WITH EQUIPMENT	
9	NET QTY:	
TO: FROM: 2	HAZMATEAM, INC KYZ, INC	
	Y25/S/22 \/M-12345	
Addres	s label mandatory	



ADD THIS LABEL IF PACKAGE CONTAINS GREATER THAN 5 KG NET LITHIUM ION BATTERIES (35 KG MAX)

NET QTY (KG OF BATTERIES) MUST JIVE WITH NET QTY DESCRIBED ON DECLARATION



© HAZMATEAM, INC

REFERENCE: DOMESTIC USA: 49 CFR 172.301 & 172.400(b), 172.402(c), 173.185 INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 966 SECTION I







FULLY REGULATED LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

- LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT, UN 3481
- AIR TRANSPORT
- BATTERY SIZE: FULLY REGULATED (UN Tested)
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- BATTERY INSTALLED IN EQUIPMENT
- MAX NET PER PKG PASSENGER AIR = 5 KG; MAX NET QTY PER PKG CARGO AIRCRAFT = 35 KG

UN 3481 LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT NET QTY:	ADD THIS LABEL IF PACKAGE CONTAINS GREATER THAN 5 KG NET LITHIUM ION BATTERIES (35 KG MAX)
TO: HAZMATEAM, INC	NET QTY (KG OF BATTERIES) MUST JIVE
FROM: XYZ, INC	WITH NET QTY DESCRIBED ON DECLARATION

Address label mandatory

© HAZMATEAM, INC

REFERENCE:

DOMESTIC USA: 49 CFR 172.301 & 172.400(b), 172.402(c) SPEC PKG NOT REQUIRED: 49 CFR 173.185 (b)(4) INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 967 SECTION I









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DAMAGED/DEFECTIVE LITHIUM ION BATTERIES SHIPPED GROUND & VESSEL

LITHIUM CELLS OR BATTERIES, THAT HAVE BEEN DAMAGED OR IDENTIFIED BY THE MANUFACTURER AS BEING DEFECTIVE FOR SAFETY REASONS, THAT HAVE THE POTENTIAL OF PRODUCING A DANGEROUS EVOLUTION OF HEAT, FIRE, OR SHORT CIRCUIT (e.g. THOSE BEING RETURNED TO THE MANUFACTURER FOR SAFETY REASONS)

- LITHIUM ION BATTERIES, UN 3480
- BATTERY SIZE: ALL (UN Tested)
- GROUND AND VESSEL ONLY
- ONLY PACKAGING DESIGNED FOR DAMAGED OR DEFECTIVE BATTERIES MAY BE USED
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- CELLS AND BATTERIES LIABLE TO RAPIDLY DISASSEMBLE, DANGEROUSLY REACT, PRODUCE A FLAME OR A DANGEROUS EVOLUTION OF HEAT OR DANGEROUS EMISSION OF TOXIC, CORROSIVE OR FLAMMABELE GASES OR VAPORS UNDER NORMAL CONDITIONS OF TRANSPORT SHALL NOT BE TRANSPORTED



Address label: IMDG optional; DOT see 49 CFR 172.301(d)



© HAZMATEAM, INC

REFERENCE:

<u>IMDG</u>

MARKS AND LABEL: IMDG Code Chapter 5.2 AND SP 376 PACKAGING: IMDG Code Chapter 4.1.4, PI P903 & PI P908

DOT GROUND

MARKS AND LABELS: 49 CFR 172 SUBPARTS D & E & 173.185 (f)(4) PACKAGING: <u>49 CFR 173.185 (b), (f) (CLICK)</u>







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SMALL LITHIUM METAL BATTERIES – NO EQUIPMENT

- LITHIUM METAL BATTERIES, UN 3090 •
- BATTERY SIZE: SMALL (UN Tested) •
- **GROUND & VESSEL TRANSPORT** •
- NO EQUIPMENT .
- DECLARATION/SHIPPING PAPER: NO •
- Limit: 30 KG GROSS WT •





Address label optional



Address label optional

© HAZMATEAM, INC

REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188



SMALL LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT

NET WT OF SMALL BATTERIES PER PACKAGE IS NO MORE THAN 5 KG

- LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, UN 3091
- BATTERY SIZE: SMALL (UN Tested)
- GROUND & VESSEL TRANSPORT
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- <u>CLICK HERE IF MORE THAN 5 KG NET PER PACKAGE</u>



Address label optional

© HAZMATEAM, INC

REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3) VESSEL: IMDG CODE, CHAPTER 3.3, SP 188







SMALL LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT



NET WT OF BATTERIES PER PACKAGE IS GREATER THAN 5 KG

- LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, UN 3091
- BATTERY SIZE: SMALL (UN Tested)
- GROUND & VESSEL TRANSPORT
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- CAO OR "PRIMARY..." LABEL ONLY REQUIRED IF SHIPPED FROM, THROUGH OR TO USA
- <u>CLICK HERE IF NO MORE THAN 5 KG NET PER PACKAGE</u>



Address label optional



Address label optional

© HAZMATEAM, INC REFERENCE: GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3) VESSEL: IMDG CODE, CHAPTER 3.3, SP 188







SMALL LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG



- LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE
- BATTERY INSTALLED IN EQUIPMENT.
- DECLARATION/SHIPPING PAPER: NO
- <u>CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED (OTHER THAN BUTTON CELLS) & NO MORE</u>
 <u>THAN 5 KG NET</u>
- <u>CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED (OTHER THAN BUTTON CELLS) & OVER 5</u>
 <u>KG NET</u>
- <u>CLICK HERE IF LITHIUM METAL BUTTON CELLS CONTAINED IN EQUIPMENT</u>



Address label optional





IF MORE THAN 2 PACKAGES PER CONSIGNMENT.

© HAZMATEAM, INC

REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188







SMALL LITHIUM METAL BUTTON CELLS CONTAINED IN EQUIPMENT

NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG

- LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- BUTTON CELL INSTALLED IN EQUIPMENT
- DECLARATION/SHIPPING PAPER: NO
- BUTTON CELL INSTALLED IN EQUIPMENT
- NO LIMIT TO THE NUMBER OF BUTTON CELLS INSTALLED, BUT CANNOT EXCEED 5 KG NET
- <u>CLICK HERE IF SMALL LITHIUM METAL BATTERY OTHER THAN BUTTON CELL INSTALLED</u>

TO: HAZMATEAM, INC FROM: XYZ, INC	
FROM: XYZ, INC	

Button cell or battery means a round small cell or battery when the overall height is less than the diameter.

Address label optional

© HAZMATEAM, INC

REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3)

VESSEL: IMDG CODE, CHAPTER 3.3, SP 188







SMALL LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

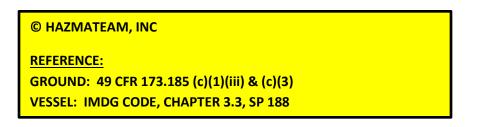


NET WT OF BATTERY PER PACKAGE NO MORE THAN 5 KG

- LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE
- DECLARATION/SHIPPING PAPER: NO
- BATTERIES INSTALLED IN EQUIPMENT
- <u>CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED (OTHER THAN BUTTON CELLS) & OVER 5</u>
 <u>KG NET</u>
- <u>CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED (OTHER THAN BUTTON CELLS) & NO</u> <u>MORE THAN 5 KG NET</u>
- <u>CLICK HERE IF LITHIUM METAL BUTTON CELLS CONTAINED IN EQUIPMENT</u>



Address label optional







SMALL LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

NET WT OF BATTERIES PER PACKAGE IS MORE THAN 5 KG

- LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091
- BATTERY SIZE: SMALL (UN Tested)
- GROUND & VESSEL TRANSPORT
- MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED IN EQUIPMENT PER PACKAGE
- DECLARATION/SHIPPING PAPER: NO
- BATTERIES INSTALLED IN EQUIPMENT
- CAO OR "PRIMARY..." LABEL ONLY REQUIRED IF SHIPPED FROM, THROUGH OR TO USA
- <u>CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED (OTHER THAN BUTTON CELLS) & NO</u> <u>MORE THAN 5 KG NET</u>
- <u>CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED (OTHER THAN BUTTON CELLS) & NO MORE</u> <u>THAN 5 KG NET</u>

OR

<u>CLICK HERE IF LITHIUM METAL BUTTON CELLS CONTAINED IN EQUIPMENT</u>



Address label optional



Address label optional

© HAZMATEAM, INC

REFERENCE: GROUND: 49 CFR 173.185 (c)(1)(iii) & (c)(3) VESSEL: IMDG CODE, CHAPTER 3.3, SP 188

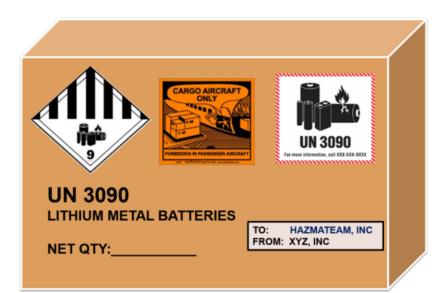




SMALL LITHIUM METAL BATTERIES - NO EQUIPMENT (PI 968 SECTION IB)

- LITHIUM METAL BATTERIES, UN 3090
- Air TRANSPORT
- NO EQUIPMENT
- BATTERY SIZE: SMALL (UN Tested)
- Package contains ≤ 2.5 KG net, lithium metal batteries
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES





Address label mandatory

NET QTY (KG OF BATTERIES) MUST JIVE WITH NET QTY DESCRIBED ON DECLARATION

© HAZMATEAM, INC

REFERENCE:

DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4) INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 968, SECTION IB PI 968 SECTION II WAS ELIMINATED 1-JAN-2022

SMALL UN 3090 MUST BE SHIPPED PI 968 SECTION IB OR PI 968 SECTION IA

CELLS AND BATTERIES MUST NOT BE PACKED IN THE SAME OUTER PACKAGING WITH CLASS 1 (OTHER THAN 1.4S), DIV 2.1, CLASS 3, DIV 4.1 or DIV 5.1









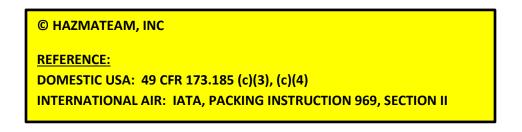


SMALL LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT

- LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, UN 3091
- Air TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG
- NO MORE THAN THE MINIMUM NUMBER OF BATTERIES TO POWER THE EQUIPMENT PLUS TWO SPARES.
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.



Address label optional





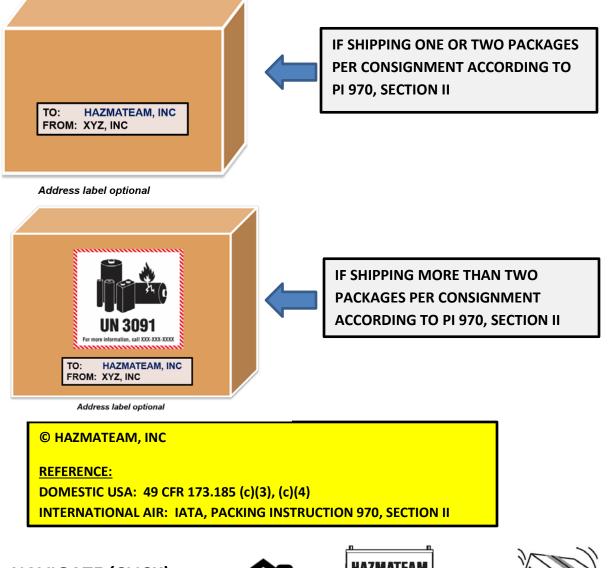




SMALL LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE

- LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091
- Air TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG
- LIMIT: NO MORE THAN 4 LITHIUM METAL CELLS OR 2 LITHIUM METAL BATTERIES ARE CONTAINED IN EQUIPMENT OR IF BUTTON CELLS ARE INSTALLED PER PACKAGE
- DECLARATION/SHIPPING PAPER: NO
- BATTERY IS INSTALLED.
- <u>CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES (OTHER THAN BUTTON CELLS) ARE CONTAINED IN</u> <u>EQUIPMENT PER PACKAGE</u>
- <u>CLICK HERE IF LITHIUM METAL BUTTON CELLS ARE CONTAINED IN EQUIPMENT</u>











SMALL LITHIUM METAL BUTTON CELLS CONTAINED IN EQUIPMENT



NO MORE THAN 5 KG NET QTY OF BUTTON CELLS INSTALLED PER PKG

- LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091
- AIR TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- BUTTON CELL INSTALLED IN EQUIPMENT
- DECLARATION/SHIPPING PAPER: NO
- BUTTON CELL INSTALLED IN EQUIPMENT
- NO LIMIT TO THE NUMBER OF BUTTON CELLS INSTALLED, CANNOT EXCEED 5 KG NET
- <u>CLICK HERE IF SMALL LITHIUM METAL BATTERY OTHER THAN BUTTON CELL INSTALLED</u>



Button cell or battery means a round small cell or battery when the overall height is less than the diameter.

Address label optional

© HAZMATEAM, INC

<u>REFERENCE:</u> DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4) INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 970, SECTION II







SMALL LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED PER PACKAGE

- LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091
- Air TRANSPORT
- BATTERY SIZE: SMALL (UN Tested)
- LIMIT: NET WT OF BATTERIES PER PACKAGE IS NO MORE THAN 5 KG
- DECLARATION/SHIPPING PAPER: NO
- BATTERY IS INSTALLED.
- CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES ARE CONTAINED IN EQUIPMENT PER PACKAGE



Address label optional

© HAZMATEAM, INC

<u>REFERENCE:</u>

DOMESTIC USA: 49 CFR 173.185 (c)(3), (c)(4) INTERNATIONAL AIR: IATA, PACKING INSTRUCTION 970, SECTION II









MEDIUM LITHIUM METAL BATTERIES – NO EQUIPMENT

- LITHIUM METAL BATTERIES, UN 3090
- GROUND ONLY --- DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM (UN Tested)
- NO EQUIPMENT
- DECLARATION/SHIPPING PAPER: NO
- Limit: 30 KG GROSS WT



LITHIUM BATTER FOR TRANSPORT AIRCRAFT AND V		
	TO: HAZMATEAM, FROM: XYZ, INC	INC
UN 3090 For more information, call XXX-XXX-XXXX		

Address label optional

© HAZMATEAM, INC

REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iv), (vi) & (c)(3)





MEDIUM LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT

- LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, UN 3091
- GROUND ONLY DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM (UN Tested)
- DECLARATION/SHIPPING PAPER: NO
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.



		/
LITHIUM BATTER FOR TRANSPORT AIRCRAFT AND V		
UN 3091 For more information, call XXX-XXX-XXXX	TO: HAZMATEAM, FROM: XYZ, INC	INC

Address label optional

© HAZMATEAM, INC

REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iv) & (c)(3)







MEDIUM LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED PER PACKAGE

- LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091
- GROUND ONLY DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM (UN Tested)
- NO MORE THAN 4 CELLS OR 2 BATTERIES INSTALLED IN EQUIPMENT OR BUTTON CELLS INSTALLED
- DECLARATION/SHIPPING PAPER: NO
- BATTERY INSTALLED IN EQUIPMENT.
- CLICK HERE IF MORE THAN 4 CELLS OR 2 BATTERIES ARE CONTAINED IN EQUIPMENT PER PACKAGE

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© HAZMATEAM, INC

REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iv) & (c)(3)

IF MORE THAN 2 PACKAGES PER CONSIGNMENT.





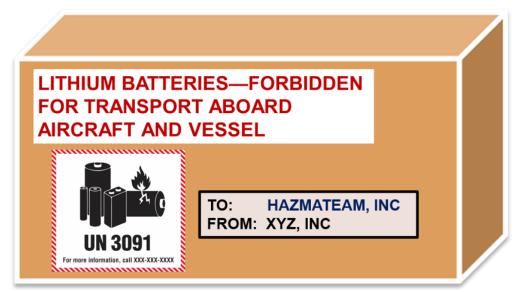




MEDIUM LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE

- LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091
- GROUND ONLY --- DOMESTIC USA ONLY
- BATTERY SIZE: MEDIUM (UN Tested)
- DECLARATION/SHIPPING PAPER: NO
- BATTERIES INSTALLED IN EQUIPMENT
- <u>CLICK HERE IF NO MORE THAN 4 CELLS OR 2 BATTERIES CONTAINED IN EQUIPMENT PER PACKAGE</u>



Address label optional

© HAZMATEAM, INC

REFERENCE:

GROUND: 49 CFR 173.185 (c)(1)(iv) & (c)(3)

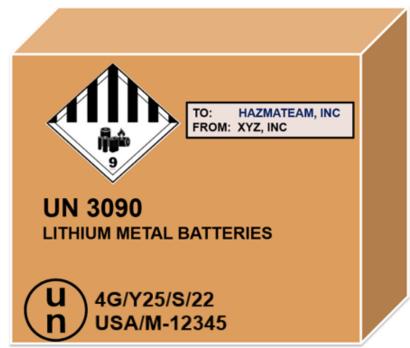






FULLY REGULATED LITHIUM METAL BATTERIES - NO EQUIPMENT

- LITHIUM METAL BATTERIES, UN 3090
- GROUND & VESSEL TRANSPORT
- NO EQUIPMENT
- BATTERY SIZE: FULLY REGULATED (UN Tested)
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- Limit: REFER TO PACKAGE CLOSURE INSTRUCTION





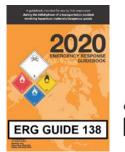


Address label: IMDG optional; DOT see 49 CFR 172.301(d)

© HAZMATEAM, INC

REFERENCE: GROUND: 49 CFR 172.301 & 172.447, 173.185 VESSEL: IMDG CODE, CHAPTER 5.2, PI P903







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FULLY REGULATED LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT

- LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, UN 3091
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: FULLY REGULATED (UN Tested)
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- Limit: REFER TO PACKAGE CLOSURE INSTRUCTION



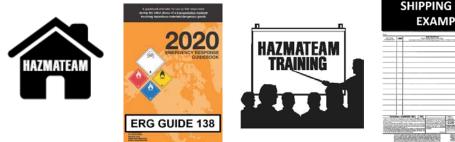


HAZMATEAM

HAZMATEAN

Address label: IMDG optional; DOT see 49 CFR 172.301(d)

© HAZMATEAM, INC <u>REFERENCE:</u> GROUND: 49 CFR 172.301, 172.447 & 173.185 VESSEL: IMDG CODE, CHAPTER 5.2, PI P903



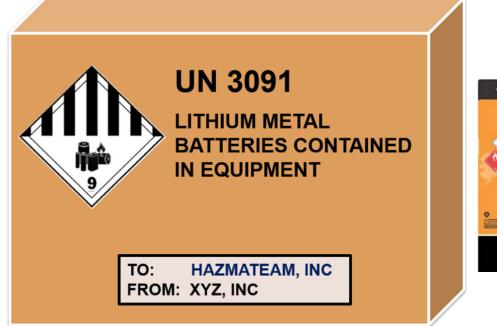




FULLY REGULATED LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

- LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091
- GROUND & VESSEL TRANSPORT
- BATTERY SIZE: FULLY REGULATED (UN Tested)
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- BATTERY INSTALLED IN EQUIPMENT







Address label: IMDG optional; DOT see 49 CFR 172.301(d)

© HAZMATEAM, INC

REFERENCE: GROUND: 49 CFR 172.301 & 172.400 (b) SPEC PKG NOT REQUIRED: 49 CFR 173.185 (b)(4) VESSEL: IMDG CODE, CHAPTER 5.2, PI P903



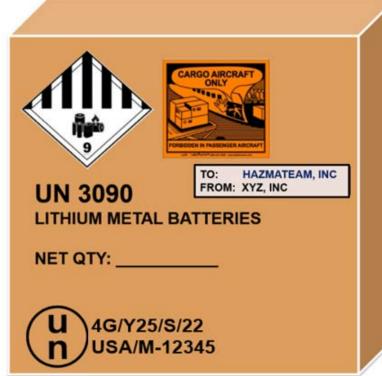






FULLY REGULATED LITHIUM METAL BATTERIES - NO EQUIPMENT (PI 968 SECTION IA)

- LITHIUM METAL BATTERIES, UN 3090
- AIR TRANSPORT
- NO EQUIPMENT
- BATTERY SIZE: FULLY REGULATED (UN Tested)
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- FORBIDDEN FOR PASSENGER AIRCRAFT; MAX NET QTY PER CARGO AIRCRAFT = 35 KG
- REFER TO PACKAGE CLOSURE INSTRUCTION



Address label mandatory





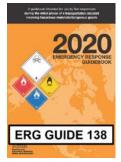
NET QTY (KG OF BATTERIES) MUST JIVE WITH NET QTY DESCRIBED ON DECLARATION CELLS AND BATTERIES MUST NOT BE PACKED IN THE SAME OUTER PACKAGING WITH CLASS 1 (OTHER THAN 1.4S), DIV 2.1, CLASS 3, DIV 4.1 or DIV 5.1

© HAZMATEAM, INC

REFERENCE:

DOMESTIC USA: 49 CFR 172.301 & 172.400(b), 172.402(c) INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 968 SECTION IA











FULLY REGULATED LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT

LITHIUM METAL BATTERIES PACKED WITH EQUIPMENT, UN 3091

- AIR TRANSPORT
- BATTERY SIZE: FULLY REGULATED (UN Tested)
- EQUIPMENT AND BATTERY IN SAME PACKAGE. BATTERY NOT INSTALLED.
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- MAX NET PER PKG PASSENGER AIR = 5 KG;
- MAX NET QTY PER PKG CARGO AIRCRAFT = 35 KG
- REFER TO PACKAGE CLOSURE INSTRUCTION

		/
	UN 3091	
	LITHIUM METAL	
	BATTERIES PACKED WITH	
9	EQUIPMENT	
~	NET QTY:	
	HAZMATEAM, INC XYZ, INC	
U 4G/Y	25/S/22 M-12345	

Address label mandatory

© HAZMATEAM, INC

REFERENCE: DOMESTIC USA: 49 CFR 172.301 & 172.400(b), 172.402(c) INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 969 SECTION I



ADD THIS LABEL IF PACKAGE CONTAINS GREATER THAN 5 KG NET LITHIUM METAL BATTERIES (35 KG MAX)

NET QTY (KG OF BATTERIES) MUST JIVE WITH NET QTY DESCRIBED ON DECLARATION





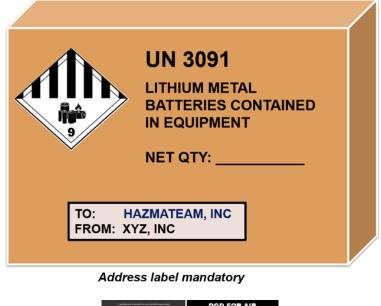






FULLY REGULATED LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT

- LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT, UN 3091
- AIR TRANSPORT
- BATTERY SIZE: FULLY REGULATED (UN Tested)
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- BATTERY INSTALLED IN EQUIPMENT
- MAX NET PER PKG PASSENGER AIR = 5 KG; MAX NET QTY PER PKG CARGO AIRCRAFT = 35 KG







REFERENCE:

DOMESTIC USA: 49 CFR 172.301,172.447, 172.402(c) & 173.185 SPEC PKG NOT REQUIRED: 49 CFR 173.185 (b)(4) INTERNATIONAL AIR: IATA 7.1.4.1, 7.2.3.1, PI 970 SECTION I

NAVIGATE (CLICK):











ADD THIS LABEL IF PACKAGE CONTAINS GREATER THAN 5 KG NET LITHIUM METAL BATTERIES (35 KG MAX)

NET QTY (KG OF BATTERIES) MUST JIVE WITH NET QTY DESCRIBED ON DECLARATION



DAMAGED/DEFECTIVE LITHIUM METAL BATTERIES SHIPPED GROUND & VESSEL

LITHIUM CELLS OR BATTERIES, THAT HAVE BEEN DAMAGED OR IDENTIFIED BY THE MANUFACTURER AS BEING DEFECTIVE FOR SAFETY REASONS, THAT HAVE THE POTENTIAL OF PRODUCING A DANGEROUS EVOLUTION OF HEAT, FIRE, OR SHORT CIRCUIT (e.g. THOSE BEING RETURNED TO THE MANUFACTURER FOR SAFETY REASONS)

- LITHIUM METAL BATTERIES, UN 3090
- BATTERY SIZE: ALL (UN Tested)
- GROUND AND VESSEL ONLY
- ONLY PACKAGING DESIGNED FOR DAMAGED OR DEFECTIVE BATTERIES MAY BE USED
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): YES
- CELLS AND BATTERIES LIABLE TO RAPIDLY DISASSEMBLE, DANGEROUSLY REACT, PRODUCE A FLAME OR A DANGEROUS EVOLUTION OF HEAT OR DANGEROUS EMISSION OF TOXIC, CORROSIVE OR FLAMMABELE GASES OR VAPORS UNDER NORMAL CONDITIONS OF TRANSPORT SHALL NOT BE TRANSPORTED



Address label: IMDG optional; DOT see 49 CFR 172.301(d)



HAZMATEAM

© HAZMATEAM, INC REFERENCE:

IMDG

MARKS AND LABEL: IMDG Code Chapter 5.2 AND SP 376 PACKAGING: IMDG Code Chapter 4.1.4, PI P903 & PI P908

DOT GROUND

MARKS AND LABELS: 49 CFR 172 SUBPARTS D & E & 173.185 (f)(4) PACKAGING: <u>49 CFR 173.185 (b), (f) (CLICK)</u>







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BATTERY-POWERED VEHICLES SHIPPED GROUND



- BATTERY-POWERED VEHICLE, UN 3171
- BATTERY SIZE: ALL
- BATTERY MUST BE UN 38.3 TESTED (UN Tested)
- MODE: GROUND
- BATTERY MUST BE INSTALLED & NOT DAMAGED/DEFECTIVE
- NO SPARE BATTERIES ARE PERMITTED
- DECLARATION/SHIPPING PAPER & ER INFO (SDS or ERG Page): NO
- THIS INFORMATION APPLIES TO VEHICLES POWERED ONLY BY A LITHIUM METAL OR LITHIUM ION BATTERY. IF THE VEHICLE IS POWERED BY OTHER BATTERY TYPES OR OTHER FUELS, REFER TO 49 CFR 173.220
- *"BATTERY-POWERED VEHICLES"* ARE SELF-PROPELLED APPARATUS DESIGNED TO CARRY ONE OR MORE PERSONS OR GOODS. EXAMPLES OF SUCH VEHICLES ARE ELECTRICALLY-POWERED CARS, MOTORCYCLES, SCOOTERS, THREE AND FOUR-WHEELED VEHICLES OR MOTORCYCLES, TRUCKS, LOCOMOTIVES, BICYCLES (PEDAL CYCLES WITH AN ELECTRIC MOTOR) AND OTHER VEHICLES OF THIS TYPE (*E.G.* SELF-BALANCING VEHICLES OR VEHICLES NOT EQUIPPED WITH AT LEAST ONE SEATING POSITION), LAWN TRACTORS, SELF-PROPELLED FARMING AND CONSTRUCTION EQUIPMENT, BOATS, AIRCRAFT, WHEELCHAIRS AND OTHER MOBILITY AIDS. THIS INCLUDES VEHICLES TRANSPORTED IN A PACKAGING. IN THIS CASE SOME PARTS OF THE VEHICLE MAY BE DETACHED FROM ITS FRAME TO FIT INTO THE PACKAGING. REFERENCE: 49 CFR 172.102, SP 134.
- VEHICLE MUST BE RESTRAINED WITHIN THE OUTER PACKAGE.



PACKAGE DOES NOT REQUIRE ANY HAZARD MARKS OR LABELS. © HAZMATEAM, INC, REFERENCE:

DOT GROUND Applicability of UN 3171: <u>49 CFR 172.102, SP 134 (CLICK)</u>

Requirements: 49 CFR 173.220 (a),(d) and (h) (CLICK)

NAVIGATE (CLICK):



BATTERY-POWERED VEHICLES

BATTERY-POWERED VEHICLES SHIPPED VESSEL



- BATTERY-POWERED VEHICLE, UN 3171
- BATTERY SIZE: ALL
- BATTERY MUST BE UN 38.3 TESTED (UN Tested)
- MODE: VESSEL
- BATTERY MUST BE INSTALLED & NOT DAMAGED/DEFECTIVE
- NO SPARE BATTERIES ARE PERMITTED
- DECLARATION & ER INFO (SDS or ERG Page): YES
- DECLARATION & ER INFO NOT REQUIRED IF IMDG SP 961 IS APPLICABLE
- FREIGHT CONTAINERS DO NOT REQUIRE PLACARDS
- THIS INFORMATION APPLIES TO VEHICLES POWERED ONLY BY A LITHIUM METAL OR LITHIUM ION BATTERY. IF THE VEHICLE IS POWERED BY OTHER BATTERY TYPES OR OTHER FUELS, REFER TO IMDG SP 388 & 962.
- *"BATTERY-POWERED VEHICLES"* ARE SELF-PROPELLED APPARATUS DESIGNED TO CARRY ONE OR MORE PERSONS OR GOODS. EXAMPLES OF SUCH VEHICLES ARE ELECTRICALLY-POWERED CARS, MOTORCYCLES, SCOOTERS, THREE- AND FOUR-WHEELED VEHICLES OR MOTORCYCLES, TRUCKS, LOCOMOTIVES, BICYCLES (PEDAL CYCLES WITH AN ELECTRIC MOTOR) AND OTHER VEHICLES OF THIS TYPE (*E.G.* SELF-BALANCING VEHICLES OR VEHICLES NOT EQUIPPED WITH AT LEAST ONE SEATING POSITION), LAWN TRACTORS, SELF-PROPELLED FARMING AND CONSTRUCTION EQUIPMENT, BOATS, AIRCRAFT, WHEELCHAIRS AND OTHER MOBILITY AIDS. THIS INCLUDES VEHICLES TRANSPORTED IN A PACKAGING. IN THIS CASE SOME PARTS OF THE VEHICLE MAY BE DETACHED FROM ITS FRAME TO FIT INTO THE PACKAGING. REFERENCE: IMDG CODE, SP 388.
- VEHICLE MUST BE RESTRAINED WITHIN THE OUTER PACKAGE.



PACKAGE DOES NOT REQUIRE ANY HAZARD MARKS OR LABELS.

NAVIGATE (CLICK):

BATTERY-POWERED VEHICLES



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IMDG SPECIAL PROVISIONS 388, 961, & 962

BOTH REQUIRED

© HAZMATEAM, INC, REFERENCE:

IMDG CODE:



BATTERY-POWERED VEHICLES SHIPPED AIR

HAZMATEAM

- BATTERY-POWERED VEHICLE, UN 3171
- BATTERY SIZE: ALL
- BATTERY MUST BE UN 38.3 TESTED (UN Tested)
- MODE: AIR
- BATTERY MUST BE INSTALLED & NOT DAMAGED/DEFECTIVE
- NO SPARE BATTERIES ARE PERMITTED
- DECLARATION & ER INFO (SDS or ERG Page): YES
- THIS INFORMATION APPLIES TO VEHICLES POWERED ONLY BY A LITHIUM METAL OR LITHIUM ION BATTERY. IF THE VEHICLE IS POWERED BY OTHER BATTERY TYPES / OTHER FUELS, REFER TO IATA PI 952.
- *"BATTERY-POWERED VEHICLES"* ARE SELF-PROPELLED APPARATUS DESIGNED TO CARRY ONE OR MORE PERSONS OR GOODS. EXAMPLES OF SUCH VEHICLES ARE ELECTRICALLY-POWERED CARS, MOTORCYCLES, SCOOTERS, THREE- AND FOUR-WHEELED VEHICLES OR MOTORCYCLES, TRUCKS, LOCOMOTIVES, BICYCLES (PEDAL CYCLES WITH AN ELECTRIC MOTOR) AND OTHER VEHICLES OF THIS TYPE (*E.G.* SELF-BALANCING VEHICLES OR VEHICLES NOT EQUIPPED WITH AT LEAST ONE SEATING POSITION), LAWN TRACTORS, SELF-PROPELLED FARMING AND CONSTRUCTION EQUIPMENT, BOATS, AIRCRAFT, WHEELCHAIRS AND OTHER MOBILITY AIDS. THIS INCLUDES VEHICLES TRANSPORTED IN A PACKAGING. IN THIS CASE SOME PARTS OF THE VEHICLE MAY BE DETACHED FROM ITS FRAME TO FIT INTO THE PACKAGING. REF: IATA DGR SP 214
- VEHICLE MUST BE RESTRAINED WITHIN THE OUTER PACKAGE.



NET IS THE WEIGHT OF THE VEHICLE

IF VEHICLE IS VISIBLE, NO MARKS OR LABELS (A87):



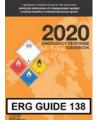
NAVIGATE (CLICK):

BATTERY-POWERED VEHICLES



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SHIPPING PAPER





RESTRICTIONS:

- FOR UN 3171 in USA, 49 CFR 173.220 (d) prohibits Lithium Metal Batteries installed in vehicle on passenger aircraft.
- Many airlines have restrictions with UN 3171.



© HAZMATEAM, INC,

IATA DGR REFERENCE:

SPECIAL PROVISIONS: A87, A185, A214 & PI 952

SHIPPING PAPER/DECLARATION EXAMPLES

The following are examples of completed shipping papers/declarations. Always consult the appropriate regulation for complete details:

USA Ground:	<u>49 CFR 172.200 (CLICK)</u>
International vessel:	IMDG Code, Volume 1, Chapter 5.4
International air:	IATA DGR, Section 8 (Note: New declaration format as of IATA 60 th Edition,
	2019; May use declaration illustrated in the 59 th Edition until 31-Dec-2024.

EXAMPLE #	MODE	CONSIGNMENT
<u>1 (click)</u>	Ground	UN 3480 and non-regulated material
<u>2 (click)</u>	Ground	UN 3091, Lithium Metal Batteries Packed with Equipment in an overpack
<u>3 (click)</u>	Ground	Wooden crates - UN 3481, Lithium Ion Batteries Contained in equipment and non- regulated material
4 (click)	Vessel	Consignment of UN 3090, UN 3091 ('packed with') and UN 3091 ('contained in')
<u>5 (click)</u>	Vessel	250 packages of UN 3480 loaded into a freight container
<u>6 (click)</u>	Vessel	Packages of UN 3480 and UN 3090 contained in an overpack
<u>7 (click)</u>	Air	Fully regulated UN 3090 shipped according to IATA PI 968 Section IA
<u>8 (click)</u>	Air	Small UN 3090 shipped according to IATA PI 968 Section IB
<u>9 (click)</u>	Air	Fully regulated UN 3480 shipped according to IATA PI 965 Section IA
<u>10 (click)</u>	Air	SMALL UN 3480 batteries shipped according to IATA PI 965 Section IB
<u>11 (click)</u>	Air	UN 3481, Lithium Ion Batteries Contained in Equipment within an overpack
12 (click)	Air	UN 3091, Lithium Metal Batteries packed with equipment. Shipped out of USA.
<u>13 (click)</u>	Vessel	UN 3171, Battery-Powered Vehicle. Powered by a lithium metal battery.
<u>14 (click)</u>	Air	UN 3171, Battery-Powered Vehicle. Powered by a lithium ion battery.



• 10 FIBREBOARD BOXES of UN 3480 (NO EQUIPMENT) : Each Box contains 5 KG net batteries; Each Box weighs 11 KG, GROSS

 $\circ \quad \textbf{1 box of non-regulated material}$

_{age} 1 _{of} 1		(Name o	of carrier)	(SCAC)	Date_	1-JAN-2	022
Collection Delivery shopmonts the letters CC O: Onsignee XYZ, INC.		tem 430 Gec 1		IATEAM, INC IBALL HILL R			
treet 1 MAIN ST	TREET		City HUDSON		State NH z	up Code 0	3051
omaha	State NE Zip C	_{Code} 72111	24 hr. Emergency Cont	act Tel, No. 800-53	5-5053, CON	TRACT	12345
oute					Vehicle Number	<u> </u>	2
No of Units & Container Type		DESCRIPTON ng Name, Hazard Class, acking Group, per 172 101,	, 172 202, 172 203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carner Use Only)
0 BOXES X	UN 3480, LITHIUM I	ON BATTER	RIES, 9	50 KG (NET)	110 KG (GROSS)		
1	ERG # 147	$\frac{1}{1}$	7				
<u>//</u>					1		
BOX	NON-REGULATED	MATERIAL			10 KG (GROSS)		
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	SINDERED: YES NO	v declare that the contents of this	REMIT C O D TO ADDRESS	I		<u> </u>	
ecritically in writing the agreed or de reed or declared value of the propert not exceeding per) Where the applicable tariff provise	eclared value of the property, as follows "The consign ty is hereby specifically stated by the shipper to in ons specify a limitation of the carrier's liability marked	ment are fully and accurately ed above by the proper shipping and are classified, packaged, and labelled/placarded, and are	COD	Amt \$	C O D FEE PREPAID COLLECT		
isent a release or a value declaration e carrier's liability or declare a value t ovided by such provisions. See NMFI Commodities requiring special or ad ust be so marked and packaged as i	by the shipper and the shipper does not release in all in the carrier's liability shall be limited to the extent it transpo- to (timin 172) internat ditional care or attention in handling or stowing regulative to carrier on the cancerother (not in the extent of th	espects in proper condition for ort according to applicable ional and national governmental ons	Subject to Section 7 of the cor	n the consignor			's —
the Contract Terms and Conditions I	for a list of such articles	Fauci so		SIG	NATURE		







- 20 Plywood boxes of Lithium Metal Batteries Packed with Equipment: Each Package contains 3 Kg, net lithium metal batteries; Each Package weighs 10 KG, GROSS WT
- All 20 boxes are on a pallet, shrunk wrapped (an overpack)

							Carri	er No			
_{Page} 1 _{of}	1							Date_	FEB 5,	2022	
		_		(Name o	of carrier)	(SCAC)					
	INC.	D" must appear before consignee'	s name or as otherwise provided in item 430. Sec. 1		FROM: HAZN	IATEAM, ING					
Consignee ,		REET			Street 12 KIN	IBALL HILL R	OAD				
0.000	IN ST		7'		City HUDSON		State N		ip Code		
City OMAHA		State NE	Zip Code 72	2111	24 hr. Emergency Cont	act Tel. No. 800-53	5-5053	, CON	RAC	1 1234	5
Route		·	BASIC DESCRIP	TON		TOTAL QUANTITY	WE	Number		СНАЯ	È
No of Units & Container Type	нм	Identification	Proper Shipping Name, H n Number (UN or NA), Packing Gro	lazard Class,	, 172 202, 172 203	(Weight, Volume, Gallons, etc.)	(Sub	ect to ection)	RATE	(For C Use (Ĺ
20 BOXES	Х	UN 3091,	LITHIUM MET	AL BAT	TERIES	60 KG (NET	200 KG	,GROSS			
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PLACAR	DS TE	NDERED: YES	NO./		REMIT						
	e is depend greed or de	ent on value shippeers an clared value of the propert	e required to state I hereby declare that y, as follows "The consignment are fu	and accurately	C O D TO ADDRESS			CODFEE			
be not exceeding	per anff provision declaration b	ins specify a limitation of the shipper and th	he carrier's liability marked and labelled er does not release in all respects in p	ssified, packaged /placarded, and are roper condition to	Subject to Section 7 of the co	Amt \$		PREPAID			-
provided by such provisions (3)Commodities requiring sp must be so marked and pac of item 360 Bills of Lading,	See NMFC becial or add ckaged as to	titional care or attention in to ensure safe transportation	andling or stowing regulations	tional governmenta		on the consignor, IK delivery of this s	AINE			JIN S	-
of the Contract Terms and C	Conditions for	r a list of such articles	And Section 1(a) Mac Jon	CS_Signatu			INAT	URE			-



SHIPPING PAPER EXAMPLES											
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		600	in i		l.						



10 WOODEN CRATES; Each crate contains a piece of equipment with one lithium ion battery installed. The net wt of the battery = 7 KG; The gross wt of one completed crate = 20 KG. The crates are not placed in an overpack.

Consignment also includes 2 bags of non-regulated material.

		ORIGINALN	OT NE	GOTIABLE		Corri	er No.			
Page 1 of	1	(Name -	d came		(SCAC)	Cam	-	FEB 5,	2022	
			Carries	.,	(3040)					
		2" must appear before consignee's name or as otherwase provided in item 430. Soc. 1 PORATION	FRO Ship		IATEAM, INC IBALL HILL RO					
Street 2502	INDU	STRIAL BLVD	Stree						0205	
	TER	State NY Zip Code 14602	<u>City</u> 24 h	r. Emergency Conta	act Tel. No. 800-535	State NH		TRAC		
Route							Vehicle Number		- 1	7
No of Units & Container Type	нм	BASIC DESCRIPTON Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172 101	, 172 20	02, 172 203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	(Sub	GHT ect to ection)	RATE	CH (For Us	ES ner ly}
10	Х	UN 3481, LITHIUM ION BATTEI	RIE	S	70 KG (NET)	200 KG	,GROSS			
WOODEN		CONTAINED IN EQUIPMENT, 9	<u></u>	TOTAL O	TY, CAN BE NE	T OR G	ROSS	L		
CRATES		ERG # 147								
2 BAGS		NON-REGULATED MATERIAL				5 KG, (GROSS			
		HM COLUMN	_							
		CHARGEABLE LITHIUM BA	TT	ERIES	IF US PHON CONT	NE SE	RVI	CE, II	NCL	-
			- C C							
specifically in writing the a agreed or declared value of be not exceeding (2) Where the applicable t absent a release or a value	preed or de the property per anff provisio declaration b re a value th	ent on value shopcers at required to sale! I hereby declare that the contents of the lared value of the propert, as follows. The consignment are fully and accurately is hereby specifically stated by the shopper to descreted above by the proper shopping the shoper and the shoper does not elease it e remotes labelity shall be innted to the estimation and ana consal governmenta ternansonal and actionation and actionation the shoper and the shoper does not elease ternansonal and actionation ternansonal and actionation ternansonal and anatonal governmenta ternansonal and the ternansonal anatonal governmenta ternansonal ternansonal ternansonal governmenta ternansonal anatonal governmenta ternansonal ternansonal governmenta ternansonal anatonal governmenta ternansonal anatonal governmenta ternansonal ternansonal governmenta ternansonal ternansonal governmenta ternansonal ternansonal governmenta ternansonal ternansonal te	AD C	DRESS OD oct to Section 7 of the con ince without recourse of	Amt \$		C O D FEE PREPAID COLLECT		~ NI	
(3)Commodities requiring s must be so marked and pa	pecial or add ckaged as to Freight Bills	Itional care or attention in handling or stowing regulations o ensure safe transportation. See section 2(0) and Statements of Charges and Scotion 1(a) Lifty Von Schtmb	followi	ng statement carrier shall not make d	delivery of this shi		ed p Furi		UN	5
NAV	'IGA	TE (CLICK):			SHIPPING PAPER EXAMPLES					







<u>UN 3090:</u> Each box contains 5 kg of lithium metal batteries; <u>UN 3091, 'packed with'</u>, box contains one 5 kg lithium metal battery in same package with equipment; <u>UN 3091, 'contained in</u>" box contains one 12 kg lithium battery installed in equipment

The four packages are sent to a freight forwarder.

1 Shipper/Consignor/Sender		2 Transport document number
HAZMATEAM, INC	_	3 Page 1 of pages 4 Shipper's reference
12 KIMBALL HILL ROA		1
HUDSON NH 03051 US/	A	Booking Number 5 Freight forwarder's reference
6 Consignee		7 Carrier
HAZMATEAM - JAMAIC	Δ.	
21 RASTA WAY	' A	
KINGSTON JAMAICA		IF USING 3 RD PARTY ER PHONE
		SERVICE, INCLUDE CONTRACT
10 Vessel	11 Port of loading	SHIPPER'S NUMBER, FOR INTERNATIONAL I hereby de ty the Prop. DO NOT USE 800 NUMBERS are in all respects in proper conducting a circle and in all respects in proper conducting a circle manual government regulations.
12 Port of discharge	13 Destination	9 Additional handling instructions
		24 HR ER - INFOTRAC 1-011-352-323-3500; Contract ID - 123S3B
14 Shipping marks	*) Number and kind of package	ges: description of goods Gross mass (kg) Net Cube (m ²)
	UN 3090, LITHIU	M METAL BATTERIES, 9 30 KG 10 KG
IMDG EMS –	IMDG EMS: F-A,	S-I; DOT ERG 138
COLUMN 15	2 (4G) FIBREBO	•
OF DGL		AND BOXES
		25 KG 5 KG
DOT ERG –	UN 3091, LITHIU	M METAL BATTERIES
ORANGE	PACKED WITH E	EQUIPMENT, 9
BOOK' CODE		S-I; DOT ERG 138
BOOK CODE		
	1 (4G) FIBREBO	ARD BOX
PACKAGE	UN 3091 LITHU	M METAL BATTERIES 66 KG 12 KG
CODES		
(EX – 4G)	CONTAINED IN E	
OPTIONAL	IMDG EMS: F-A,	S-I; DOT ERG 138 BOX 22 ALWAYS
	1 PLYWOOD BO	X
15 Container identification No	./ 16 Seal number(s)	17 Cont./vehicle size & type 16 REQUIRES A
		SIGNATURE BY
CONTAINER/VEHICLE PACK		
I hereby declare that the g	oods described above have beer ether, into the container/vehicle	
identified above in accordance	with the applicable provisions.")	unless stated hereon: RECEIVING CHORENE HIGH HEREINE
MUST BE COMPLETED AND VEHICLE LOADS BY PERSO LOADING	D SIGNED FOR ALL CONTAINER ON RESPONSIBLE FOR PACKING	u ar
20 Name of company		Haulier's name 22 Name of co. of shipper preparing this note
		Vehicle reg. no HAZMATEAM
		venuerey, it
Name/status of declarant		Signature and date Name/status of declarant
Place and date		Leo Traverse, Shipper Place and date
Flace and date		Place and date Hudson, NH, 6-JAN-2022
Signature of declarant		Driver's signature Signature of declarant
		Leo Traverse

MULTIMODAL DANGEROUS GOODS FORM









MULTIMODAL DANGEROUS GOODS FORM

1 Shipper/Consignor/Sender		2 Transport document nu	mber		
HAZMATEAM, INC		3 Page 1 of pages	Id Shipper's r	taranca	
12 KIMBALL HILL ROAD		3 Page 1 of pages 1	4 Shipper's re	elerence	
HUDSON NH 03051 USA		Booking Number	5 Freight for	warder's	reference
6 Consignee		7 Carrier			
HAZMATEAM - NETHERL	ANDS				
ZANDERSTEEN 66		IF USI	NG 3 RD PA	ARTY	ER PHONE
2669 VL AMSTERDAM NE	THERLANDS	SERVI	CE. INCLU	DE C	ONTRACT
			-		
10 Vessel	11 Port of loading	SHIPPER'S	DT USE 80	00 NU	
12 Port of discharge	13 Destination	9 Additional handling instr		\prec	
		24 HR ER - INFOTR	AC 1-011-352	-323-35	0; Contract ID – 123S3B
14 Shipping marks	*) Number and kind of packag	ges: description of goods	C	Bross mas	ss (kg) Net Cube (m ³)
		M ION BATTERIE	e 0	5000	KG 2500 KG
			3, 9		
IMDG EMS –	IMDG EMS: F-A,	S-I; ERG 147			
COLUMN 15	250 (4G) FIBREE	OARD BOXES			
OF DGL					
0. 201					
DOT ERC					
DOT ERG –	PACKAGE				
ORANGE					
BOOK' CODE	CODES			D	OX 22 ALWAYS
	(EX – 4G)			D	JA ZZ ALWATS
	OPTIONAL			R	EQUIRES A
				SI	GNATURE BY
IF LOADING				TE	AINED SHIPPER
CTN, SIGN B	OX 20	7 Cont./vehicle size & typ	be 18 Tare ma	ss (kg)	19 Total gross mass (including tare) (kg)
CONTAINER/VEHICLE PACKING		21 RECEIVING ORGANIZ	ZATION RECEIF	т	
I hereby declare that the good packed/loaded, packed togeth	er, into the container/vehicle	Received the above numb			Arailers in apparent good order and condition,
identified above in accordance wi MUST BE COMPLETED AND S	and the second s	unless stated hereon: REC	EIVING URGAI	NIZATION	REMARKS:
VEHICLE LOADS BY PERSON LOADING	RESPONSIBLE FOR PACKING	1			
20 Name of company		Haulier's name			Name of co. of shipper preparing this note
HAZMATEAM, INC		Vehicle reg. no			IAZMATEAM
Name/status of declarant		Signature and date		N	ame/status of declarant
Paul Dambek, Shipper		-gradare und date			eo Traverse, Shipper
Place and date				100	ace and date
Hudson, NH, 9-JAN-2022		Driverte einschutz			Hudson, NH, 9-JAN-2022 gnature of declarant
Signature of declarant Paul Dambek		Driver's signature		Si	gnature of declarant Leo Traverse
Full Dumber		I			Leo Traberse







<u>UN 3480:</u> 5 Packages of rechargeable lithium batteries (no equipment), each box contains 5 kg of batteries; <u>UN 3090</u>: 10 packages of non-rechargeable lithium batteries (no equipment), each box contains 3 KG of batteries. The 15 packages are placed on pallet and shrunk wrapped. The overpack was sent to a freight forwarder.

	MULTIMODA	L DANG	ERC	OUS G	OODS	FORM	
1 Shipper/Consignor/Sender		2 Transport docum	ent numt	ber			
HAZMATEAM, INC		3 Page 1 of	pages	4 Shipper's	reference		
12 KIMBALL HILL ROAD		1					
HUDSON NH 03051 USA		Booking Number		5 Freight fo	rwarder's refere	nce	
6 Consignee		7 Carrier					
HAZMATEAM - NETHERL	ANDS						
ZANDERSTEEN 66							
2669 VL AMSTERDAM NE	THERLANDS		IF US	SING 3RD		R PHONE	
			SER\	VICE, INC	CLUDE CO	NTRACT	
10 Vessel	11 Port of loading	SHIPPER'S DECL	NUN	/IBER, FO	OR INTERN	NATIONAL	scribed below
		ty the Proper Ship are in all respects	DO I	NOT USE	800 NUN	ABERS	placarded and ernational and
12 Port of discharge	13 Destination	national governmen					
12 Port of discharge	15 Destination	9 Additional handlin	ng instruc	tions		/	
		24 HR ER - INF	OTRA	C 1-011-352	2-323-3500; C	ontract ID – 123	3S3B
14 Shipping marks	*) Number and kind of package	s: description of good	ds	1	Gross mass (kg)) Net	Cube (m ³)
					50 KG	25 KG	
IMDG EMS –	UN 3480, LITHIUN						
COLUMN 15	IMDG EMS: F-A, S	S-I; DOT ERG	5 147				
OF DGL	5 (4G) FIBREBOA	RD BOXES					
DOT ERG -							
'ORANGE	UN 3090, LITHIUN	METAL BA	TTEF	RIES. 9	120 KG	30 KG	
BOOK' CODE	IMDG EMS: F-A, S						
PACKAGE	10 (4G) FIBREBO	ARD BOXES)				
CODES							
(EX – 4G)	ABOVE PLACED			rk.			
OPTIONAL	ADOVE FLACED		NEAV	51			
					BOX	22 ALW/	νc
15 Container identification No./	16 Seal number(s)	17 Cont./vehicle siz	e & type	18 Tare m	a		413
					REQU	JIRES A	
CONTAINER/VEHICLE PACKING		21 RECEIVING OF	RGANIZA	TION RECEI	SIGN	ATURE E	BY i
packed/loaded, packed togeth identified above in accordance wi	ds described above have been er, into the container/vehicle	Received the above unless stated hereo	number	of packages	тран	NED SHI	DDER
MUST BE COMPLETED AND S	SIGNED FOR ALL CONTAINER/ RESPONSIBLE FOR PACKING/	uniess stated hereo	II. RECE				TT EN
20 Name of company		Haulier's name			22 Nam	ne of co. of shipper	preparing this note
					HAZM	IATEAM, INC.	
		Vehicle reg. no					
Name/status of declarant		Signature and date				tatus of declarant	
Place and date					Steph Place at	anie Traverse,	Shipper
					100 million (100 million)	son, NH, 1-JA	N-2022
Signature of declarant		Driver's signature				re of declarant	
					Ste	eph Trave	rse









Shipper HAZMATEAM, INC 12 KIMBALL HILL ROAD HUDSON, NH 03051					Air Waybill No. 6980 Page 1 of 1 Pages Shipper's Reference Number (optional)				
1 P	PHOENIX PARTS 23 MAIN STREET PHOENIX, AZ 77777				AIRWAYBILL #, / DEPARTURE OR CAN BE COMPLI	DESTINA	TION		
	PORT D TAILS	nded to the			WARNING Failure to comply in applicable Dangerous	Goods Reg	ulations		
(delete non-a		t of Departu HESTER,			may be in breach of tl ject to legal penalties.	ne applicable la	w, sub-		
Airport of	Destination PHOENIX, AZ				Shipment Type (delate non-o NON-RADIOACTIVE	applicable) XXXXXX E			
NATURE A	AND QUANTITY OF DANGEROUS GOODS								
UN or ID No.	Dangerous Goods Identification Proper Shipping Name	01 (S	Class Division Subsidiary Hazard)	Packing Group	Quantity and Type of Packing	Packing Instruc- tions	Authorization		
UN 3090	LITHIUM METAL BATTERIES		9		2 FIBREBOARD BOXES x 4 KG	968			
-	A ERG CODE FROM COLUMN N C – 'ORANGE BOOK' CODE)F DGL;		P/	UMBER OF ACKAGES X N T PER PACK				
	Handling Information ICAO/IATA ERG CODE: Telephone Number INFOTRAC, 800-535-50								
described al marked and	clare that the contents of this consignment are fully bove by the proper shipping name, and are clar labelled/placarded, and are in all respects in prop cording to the applicable international and nation	accurately ckaged, dition for ernmental	Nam Date	e of signa	tory Paul Dambe	k			
	3 RD PARTY ER PHONE SERVICE, CONTRACT NUMBER	e etc have	Signa	ture rming above,	Paul J. Dam	bek			









One box contains 2 KG net of SMALL lithium metal batteries shipped according to IATA PI 968 Section IB. Cannot exceed 2.5 kg (net) per pkg.

hipper HAZMATEAM, INC 12 KIMBALL HILL ROAD HUDSON, NH 03051						Air Waybill No. 6980 Page 1 of 1 Pages Shipper's Reference Number (optional)				
1: P	HOENIX PARTS 23 MAIN STREET HOENIX, AZ 77777 IPMENT CANN	OT GO				AIRWAYBIL DEPARTUR CAN BE CO	E OR E	DESTIN	ATION	
Pers	PASSENGER A		l to the	e operator.		WARNING Failure to co: applicable Da				
This shipm (delete non-ap PASSEM AIRCRAI		Airport of I MANCHE				may be in bre ject to legal pe	ach of the			
Airport of	Destination PHOENIX, AZ	1			 	Shipment Type (d			Z	
-						NON-RADIOAC	IVE X	XXX	μ.	
NATURE A	ND QUANTITY OF DANGERO	oUS GOODS								
UN or ID No.	Proper Shipping N			Class or Division (Subsidiary Hazard)		Quantity an of Pack		Packing Instruc- tions	Authorization	
UN 3090	LITHIUM METAL BA	ATTERIES		9		1 FIBREBOA BOX x 2 KG	RD	968 IB 1		
				NU	ЈМВ	ER OF	WH	EN SH	IPPING	
				PA	СКА	GES X	SEC	TION	IB, MUS	
	ERG CODE FROM C		GL;	NE	TW	T PER		LUDE	-	
T ERG –	'ORANGE BOOK' C	ODE		PA	СКА	GE	ALT	ERNA	TIVELY,	
							CAN		' ІВ' ТО	
Additional F	Iandling Information ICAO/I		FZ · D	OTERG	138		AU	THOR	IZATION	
							COI	UMN		
	Telephone Number INFOT	5				-	Domb	ak.		
ma IF US	SING 3 RD PARTY ER UDE CONTRACT N	PHONE SERVICE		Date	of Signat		I Damb AN-202			
reg INCL	ODE CONTRACT N									



SHIPPING PAPER EXAMPLES									
	44	125	- 52						
	an a								



12	AZMATEAM, INC 2 KIMBALL HILL ROAD JDSON, NH 03051		Air Waybill No. Page 1 of 1 Pages Shipper's Reference Number (optional)				
E	GIZMO EMPORIUM 19 BOWDOIN STREET BLOOMINGTON, IL 61761			- I	AIRWAYBILL #, AIF DEPARTURE OR DI CAN BE COMPLET	ESTINATION	
	SENGER AIR	must be handed to t	he operator.		WARNING		
vident to th		Airport of Depa	rture		Failure to comply in al applicable Dangerous (may be in breach of the ject to legal penalties.	Goods Regulations	
Airport of	Destination	•			Shipment Type (delete non-app NON-RADIOACTIVE	licable)	
NATURE	AND QUANTITY OF DANGEROUS GOODS						
UN or D No.	Dangerous Goods Identific Proper Shipping Name	ation	Class or Division (Subsidiary Hazard)		Quantity and Type of Packing	Packing Instruc- tions	
UN 3480	LITHIUM ION BATTERIES		9		5 FIBREBOARD BOXES x 20 KG	965	
	A ERG CODE FROM COLUM – 'ORANGE BOOK' CODE	N N OF DGL	-		IBER OF AGES X NET		
	7	,	V	VT P	PER PACKAGE		
	Handling Information ICAO/IATA ERG)		
	clare that the contents of this consignment au bove by the proper shipping name, and are i labelled/placarded, and are in all respects in	e fully and accurate classified, package	ly Name o	of Signato	Stopha	nie Traverse	
		proper contaition for	Data		5 550 /	0000	
USING	5 3 RD PARTY ER PHONE SER E CONTRACT NUMBER	VICE,	al Date ve Signatu	re	5-FEB-2	Traverse	



SHIPPING PAPER EXAMPLES



2 Fibreboard boxes each containing 9 KG (net) of SMALL lithium ion batteries shipped according to IATA PI 965 Section IB

12	AZMATEA KIMBALL JDSON, N	HILL ROAD				Air Waybill No Page 1 of Shipper's Refe (opt	1 F				
1 E Sł		PORIUM DIN STREET GTON, IL 61761 ENT CANNOT G SENGER AIR		the operator.			OR D	RPORTS OF DESTINATION TED BY AIRLINE			
en destriction des des	GER CAR	CRAFT	Airport of Dep:	arture		applicable Dar	ngerous ch of the	ll respects with the Goods Regulations applicable law, sub-			
NATURE A UN or		YTY OF DANGEROUS GOODS Dangerous Goods Identifica Proper Shipping Name	tion	Class or Division (Subsidiary		Shipment Type (del NON-RADIOACTI Quantity and of Packir	VE X	Packing Instruction			
UN 3480	No. LITHIUM ION BATTERIES				N P/		NUM	2 FIBREBOAR BOXES x 9 KG IMBER OF CKAGES X		RD 965	
DT ERG	- 'ORAI	CODE FROM COLUN NGE BOOK' CODE	CODE: 12FZ;	DOT ERG	PACK		IN AL CA AL	CLUDE 'IB'. TERNATIVELY, N ADD 'IB' TO JTHORIZATION DLUMN			
I here IF descri marke IN transj	USING 3 CLUDE C	Iumber INFOTRAC, 800- B RD PARTY ER PHON CONTRACT NUMBE t all of the applicable air transpo	E SERVICE, R	arne ate	of Signato	ory Ste	ephani JAN-2	e Traverse 022			









10 boxes of UN 3481, LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT. Shipped according to IATA PI 967 Section I. Each box contains 4 KG (net) of rechargeable lithium batteries. All 10 boxes placed onto a pallet and shrunk wrapped (i.e., 'OVERPACK').

Shipper HAZMATEAM, INC 12 KIMBALL HILL ROAD HUDSON, NH 03051				Air Waybill No. Page 1 of 1 Pages Shipper's Reference Number (optional)		
GIZMO EMPORIUM 19 BOWDOIN STREET BLOOMINGTON, IL 61761			D	EPARTURE OR I	DESTINATION	
KAGE = 5 KG		the operator.	╞	WARNING		
TRANS RT DETAILS This ship: t is within the limitations prescribed for: (delete non-oficable) licable) PASSENGER CARGO AND CARGO AND CARGO AIRCRAFT ONLY		arture		Failure to comply in all respects we applicable Dangerous Goods Reg may be in breach of the applicable la ject to legal penalties.		
Destination	1			Shipment Type <i>(delete non</i> NON-RADIOACTIVE	a-applicable)	
AND QUANTITY OF DANGEROUS GOODS						
Dangerous Goods Identifica Proper Shipping Name	ition			Quantity and Type of Packing	Packing Instruc-Authorization tions	
LITHIUM ION BATTERIES CO IN EQUIPMENT	ONTAINED	9		10 FIBREBOARD BOXES x 4 KG OVERPACK USEI	967 D	
					\searrow	
					MUST USE PHRAS	
· 'ORANGE BOOK' CODE	イケ			PACKAGE	WHEN PACKAGES WITHIN AN OVERPACK	
Handling Information ICAO/IATA ERG	CODE: 12FZ;	DOT ERG	147	, .		
Telephone Number INFOTRAC, 800	-535-5053 (CC			,		
IG 3 RD PARTY ER PHONE SEI DE CONTRACT NUBER	RVICE,	ly Name o d, or Date al ' ^e Signatur		ory Mac Jon 19-JAN- <i>M. Tone</i>	2022	
	EXIMBALL HILL ROAD JDSON, NH 03051 SIZMO EMPORIUM 19 BOWDOIN STREET BLOOMINGTON, IL 61761 SENGER AIR LIMIT PR (AGE = 5 KG PRT DETAILS It is within the limitations prescribed for: izable) Toetination MND QUANTITY OF DANGEROUS GOODS Dangerous Goods Identifica Dangerous Goods Identifica Proper Shipping Name LITHIUM ION BATTERIES CO IN EQUIPMENT ERG CODE FROM COLUMN 'ORANGE BOOK' CODE Handling Information ICAO/IATA ERG Telephone Number INFOTRAC, 800 G 3 RD PARTY ER PHONE SEI	EKIMBALL HILL ROAD JDSON, NH 03051 SEXMO EMPORIUM 9 BOWDOIN STREET BLOOMINGTON, IL 61761 SENGER AIR LIMIT PER AGGE = 5 KG Narded to RT DETAILS t is within the limitations prescribed for: trable Arport of Dep (REC) Operation AND QUANTITY OF DANGEROUS GOODS Dangerous Goods Identification Proper Shipping Name LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT ERG CODE FROM COLUMN N OF DGL (ORANGE BOOK' CODE Handling Information ICAO/IATA ERG CODE: 12FZ; Telephone Number INFOTRAC, 800-535-5053 (CO	SIMBALL HILL ROAD DOSON, NH 03051 SIZMO EMPORIUM 19 BOWDOIN STREET BLOOMINGTON, IL 61761 SENGER AIR LIMIT PER (AGE = 5 KG International prescribed for: (add) Arroot of Departure Traditional Pertine of Departure Optimized for: (add) Destination Destination Internation AND QUANTITY OF DANGEROUS GOODS Dangerous Goods Identification Proper Shipping Name LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT Page BOOK' CODE NUM ORANGE BOOK' CODE Handling Information ICAO/IATA ERG CODE: 12F2; DOT ERG Telephone Number INFOTRAC, 800-535-5053 (CONTRACT G 3 RD PARTY ER PHONE SERVICE, DE CONTRACT NUBER Image of Date	EKIMBALL HILL ROAD JDSON, NH 03051 A SIZMO EMPORIUM 19 BOWDOIN STREET BLOOMINGTON, IL 61761 A SENGER AIR LIMIT PER (AGE = 5 KG handed to the operator. IT DETAILS t is within the limitations prescribed for: (abdo) handed to the operator. Destination Airport of Departure Destination Class (Subsidiary Hazard) Destination Class (Subsidiary Hazard) LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT 9 ERG CODE FROM COLUMIN N OF DGL; 'ORANGE BOOK' CODE NUMBEL PACKAG WT PER Eradling Information ICAO/IATA ERG CODE: 12FZ; DOT ERG 147 Telephone Number Handling Information ICAO/IATA ERG CODE: 12FZ; DOT ERG 147 Marne of Signate Date	INIMBALL HILL ROAD JDSON, NH 03051 Page 1 of 1 Shiper's Reference (optional) SIZMO EMPORIUM 19 BOWDOIN STREET BLOOMINGTON, IL 61761 AIRWAYBILL #, A DEPARTURE OR I CAN BE COMPLE SENGER AIR LIMIT PER (AGE = 5 KG handed to the operator. WARNING PRT DETAILS r is within the limitations prescribed for: is within the limitations prescribed for: is within the limitations prescribed for: Proper Shipping Name Airport of Departure WARNING Dettination Stipment Type (dates not NON-RADIOACTIVE NON-RADIOACTIVE AND QUANTITY OF DANGEROUS GOODS In of Packing Guberiding Quantity and Type of Packing LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT 9 10 FIBREBOARD BOXES x 4 KG OVERPACK USEI NUMBER OF PACKAGES X NET WT PER PACKAGE In FIBREBOARD BOXES x 4 KG OVERPACK USEI NUMBER OF PACKAGES X NET WT PER PACKAGE In FIBREBOARD BOXES x 4 KG OVERPACK USEI NUMBER OF PACKAGES X NET WT PER PACKAGE In FIBREBOARD BOXES x 4 KG OVERPACK USEI NUMBER OF PACKAGES X NET WT PER PACKAGE In FIBREBOARD BOXES x 4 KG OVERPACK USEI ORANGE BOOK' CODE In FIOTRAC, 800-635-5053 (CONTRACT 12345) G 3 RD PARTY ER PHONE SERVICE, DE CONTRACT NUBER Image Signatory Table Signatory Table Signatory	









4 packages of UN 3091, Lithium metal batteries packed with equipment. Shipped according to IATA PI 969 Section I. Each package contains 6 KG (net) of non-rechargeable lithium batteries and equipment (batteries not installed). Shipped out of USA.

Shipper HAZMATEAM, INC 12 KIMBALL HILL ROAD HUDSON, NH 03051 USA					Air Waybill No. Page 1 of 1 Pages Shipper's Reference Number (optional)		
	BATTERIES ITALIA VIALE CASTRO PRETORIO 199 C VIA GAETA 99 00188 ROME ITALY	FFICES		Τ	AIRWAYBILL #, A DEPARTURE OR CAN BE COMPL	DESTIN	NATION
	CARGO AIRCRAFT ONLY W EXCEEDS 5 KG NET OF BAT						
		TERRES	erator.	4	WARNING		
This ship	A GO AIRCRAFT	Airport of Dep	parture		Failure to comply in applicable Dangerous may be in breach of th ject to legal penalties.	Goods R	egulations
AIRCRA	AFT ONLY				0.1		
Airport o	f Destination			ſ	Shipment Type (delete non-ap NON-RADIOACTIVE	opluable) AXIXAXI	
				L	HOH-MEDIONETTYE		N
NATURE	AND QUANTITY OF DANGEROUS GOODS Dangerous Goods Identific				1	1 1	
UN or D No.	Proper Shipping Name		Class or Division (Subsidiary Hazard)		Quantity and Type of Packing	Packing Instruc- tions	Authorization
JN 3091	LITHIUM METAL BATTERIE	S PACKED	9		4 FIBREBOARD BOXES x 6 KG	969	
				N			
				P	ACKAGES X NE	т	
-	A ERG CODE FROM COLUM – 'ORANGE BOOK' CODE	N N OF DG	L;	V	VT PER PACKA	GE	
		<u>۲</u> ۲					
Additional	Handling Information ICAO/IATA ERG	CODE: 12FZ;	i lot erg 1	38	1		
	y Telephone Number INFOTRAC, 1-0	11-352-323-38	500 (CONTR	ACT	12345)		
mergency	colors that the contents of this considerment of	o fully and accure	Name of			bek	
hereby de		acka:	Ц,				
hereby de lescribe narked ranspo	IF USING 3 RD PARTY ER PHON SERVICE, INCLUDE CONTRACT NUMBER, FOR INTERNATION	lition	or Date al ave Signature		12-FEB-20	22	



SHIPPING PAPER EXAMPLES





2 packages (plywood boxes). Each box contains 1 robot with a lithium metal battery installed. The robot weighs 55 KG. The robot moves finished goods in a warehouse. Shipped out of USA via international vessel.

1 Shipper/Consignor/Sender		2 Transport	document numb	er			
HAZMATEAM, INC		3 Page 1 of	pages	4 Shin	per's reference		
12 KIMBALL HILL ROAD		e ruge ro.	1	, cinb			
HUDSON NH 03051 USA		Booking Nun	nber	5 Frei	ght forwarder's re	eference	
6 Consignee		7 Carrier					
BRITISH ROBOT COMPA	NY						
WESTMINSTER, LONDON	N, SW1A 1AA,		IE LISIN	G 38		ER PHONE	
UNITED KINGDOM							
				1		ONTRACT	
10 Vessel	11 Port of loading	SHIPPER'S				RNATIONAL	
		I hereby dec ty the Prope	DO NO	t US	<mark>E 800 NU</mark>	MBERS	placarded and
		are in all res	pects in proper o		n tor transp	ang to the applicat	ple international and
12 Port of discharge	13 Destination	-	ernment regulati handling instruc		$- \prec$	<u> </u>	
			-				
		24 HR EF	R - INFOTRAC	1-01	1-352-323-350	0; Contract ID – 12	3S3B
14 Shipping marks	*) Number and kind of package	s: description	of goods		Gross mas	s(kg) Net	Cube (m ³)
						110 KG	
	UN 3171, BATTERY-			, 9 ,		nono	
IMDG EMS –	IMDG EMS: F-A, S-I;	DOT ERG	i 138				
COLUMN 15	2 PLYWOOD BOXES						
OF DGL							
DOT FRC							
DOT ERG –							
'ORANGE							
BOOK' CODE							
UN							
PACKAGING							
NOT R'D							
						3 A 1 A / A /	_
					BOX 2	2 ALWAY	5
				_	REQUI	RES A	
15 Container identification No./	16 Seal number(s)	17 Cont./veh	icle size & type	18)
					SIGNA	TURE BY	
CONTAINER/VEHICLE PACKIN		21 RECEIVI	NG ORGANIZA		TDAIN		
I hereby declare that the goo packed/loaded, packed togeth	ds described above have been her, into the container/vehicle		above number		IKAIN	ED SHIPF	ion
identified above in accordance w	ith the applicable provisions.**)	unless stated	hereon: RECE	IVING	ORGANIZATION	NERPANIO.	
VEHICLE LOADS BY PERSON	SIGNED FOR ALL CONTAINER/ RESPONSIBLE FOR PACKING/						
20 Name of company		Haulier's nan	ne		22	Name of co. of shippe	r preparing this note
·····,							
		Vehicle reg.	no		H	AZMATEAM	
Name/status of declarant		Signature an	d date			me/status of declarant	or
Place and date						eo Traverse, Shipp	
						ludson, NH, 6-JA	N-2022
Signature of declarant		Driver's signa	ature			nature of declarant	
						Leo Travers	e

MULTIMODAL DANGEROUS GOODS FORM



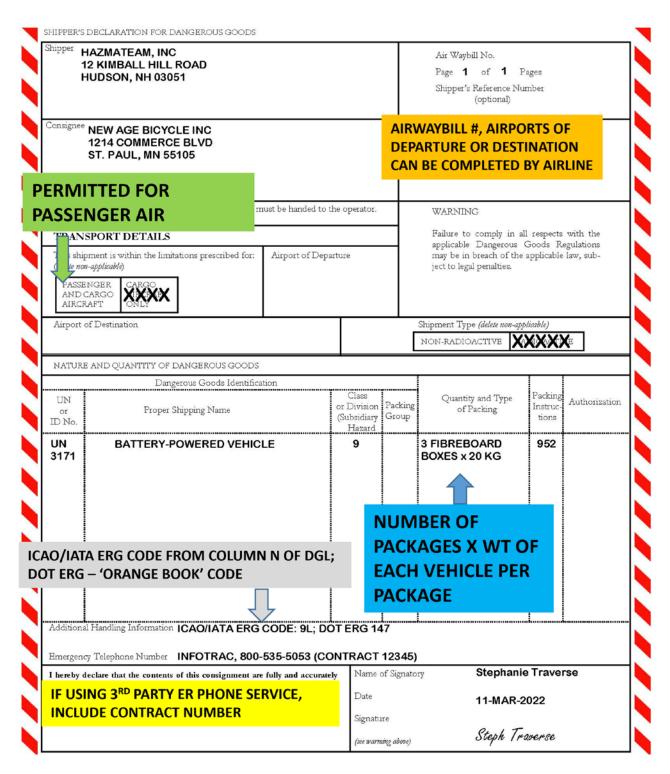
SHIPPING PAPER EXAMPLES					
160% 	anarca in Collection on the	20	120	- 177	
				-	
				-	
				-	
				-	
-			- 2		
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INFORMATION



3 packages (fibreboard boxes). Each box contains 1 bicycle with a lithium ion battery installed. Each bicycle weighs 20 KG. Shipped air transport.





SHIPPING PAPER EXAMPLES



EMERGENCY RESPONSE INFORMATION

When shipping papers (Bill of lading forms, Dangerous Goods Declaration forms) are required, all lithium battery shipments to, from or through the United States must have written emergency response information accompany the shipment. This written document is typically either a SDS for the material or the applicable ERG pages from the DOT Emergency Response Guidebook (i.e., 'Orange Book'). Applicable ERG Codes from the Orange Book are: Guide 138 (Lithium metal batteries) and Guide 147 (Lithium Ion batteries).

On each shipping paper example provided in this guide, either DOT ERG GUIDE 138 or 147 is referenced. Simply writing the guide number only on the BOL/declaration does not meet the emergency response information requirements described in <u>49 CFR 172.602</u>. Written information (the SDS or ERG pages) must be provided along with the shipping paper.

All shipping papers for shipments from, to or through the United States must also have 24-hour emergency telephone number, as described in <u>49 CFR 172.604</u>. Each shipping paper example provided in this guide illustrates placement of the ER phone number.

The shipping paper examples provided in this guide also reference emergency response guidebooks used by personnel on vessels or aircraft. The vessel and aircraft guides referenced are:

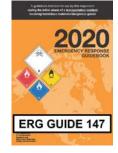
IMDG CODE: The EMS Code referenced in column 15 of the IMDG Dangerous Goods List (DGL) is listed in *"The EmS Guide – Emergency Response Procedures for Ships Carrying Dangerous Goods".*

IATA DGR: The IACO/IATA ERG Code referenced in Column N of the IATA DGR Dangerous Goods List (DGL) is the Emergency Response Drill Code as found in the International Civil Aviation Organization (IACO) document, *"The Emergency Response Guidance for Aircraft Incidents Involving Dangerous Goods" (ICAO Doc. 9481-AN/928*).

The IMDG Code and IATA DGR emergency response information described on the shipping paper examples in this guide are for the benefit of the operator of the vessel or aircraft.



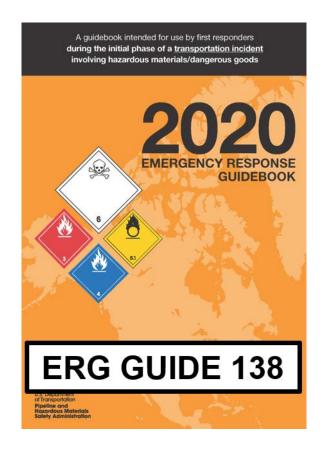




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EMERGENCY RESPONSE GUIDE #138 – NEXT PAGE

(THIS DOCUMENT OR A SDS FOR BATTERY MUST ACCOMPANY ALL FULLY REGULATED SHIPMENTS OF LITHIUM METAL BATTERIES)









GUIDE SUBSTANCES - WATER-REACTIVE (EMITTING FLAMMABLE GASES)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- Produce flammable gases on contact with water.
- May ignite on contact with water or moist air.
- Some react vigorously or explosively on contact with water.
- May be ignited by heat, sparks or flames.
- May re-ignite after fire is extinguished.
- Some are transported in highly flammable liquids.
- Runoff may create fire or explosion hazard.

HEALTH

- Inhalation or contact with vapors, substance or decomposition products may cause severe injury or death.
- May produce corrosive solutions on contact with water.
- Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may cause environmental contamination.

PUBLIC SAFETY

- CALL 911. Then call emergency response telephone number on shipping paper. If shipping paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Ventilate closed spaces before entering, but only if properly trained and equipped.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that is specifically recommended by the manufacturer when there is NO RISK OF FIRE.
- Structural firefighters' protective clothing provides thermal protection but only limited chemical protection.

EVACUATION

Immediate precautionary measure

 Isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids.

Spill

- For highlighted materials: see Table 1 Initial Isolation and Protective Action Distances.
- For non-highlighted materials: increase the immediate precautionary measure distance, in the downwind direction, as necessary.

Fire

• If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.



In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping paper and/or the ERAP Program Section (page 390).

ERG 2020

GUIDE SUBSTANCES - WATER-REACTIVE (EMITTING FLAMMABLE GASES)

EMERGENCY RESPONSE

FIRE

DO NOT USE WATER OR FOAM.

Small Fire

• Dry chemical, soda ash, lime or sand.

Large Fire

- DRY sand, dry chemical, soda ash or lime or withdraw from area and let fire burn.
- If it can be done safely, move undamaged containers away from the area around the fire.

Fire Involving Metals or Powders (Aluminum, Lithium, Magnesium, etc.)

• Use dry chemical, DRY sand, sodium chloride powder, graphite powder or class D extinguishers; in addition, for Lithium you may use Lith-X® powder or copper powder. Also, see GUIDE 170.

Fire Involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles.
- Do not get water inside containers.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.

DO NOT GET WATER on spilled substance or inside containers.

Small Spill

- Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
- Dike for later disposal; do not apply water unless directed to do so.

Powder Spill

Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

• DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

FIRST AID

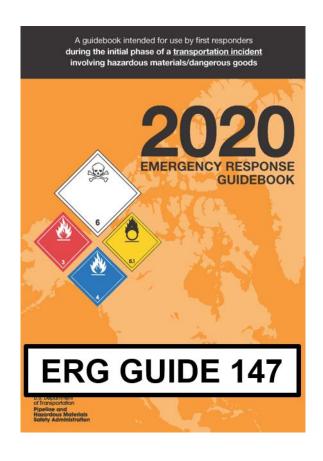
- Call 911 or emergency medical service.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air if it can be done safely.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, wipe from skin immediately; flush skin or eves with running water for at least 20 minutes.
- Keep victim calm and warm.



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EMERGENCY RESPONSE GUIDE #147 – NEXT PAGE

(THIS DOCUMENT OR A SDS FOR BATTERY MUST ACCOMPANY ALL FULLY REGULATED SHIPMENTS OF LITHIUM ION BATTERIES)







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GUIDE LITHIUM ION BATTERIES

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- Lithium ion batteries contain flammable liquid electrolyte that may vent, ignite and produce sparks when subjected to high temperatures (> 150°C (302°F)), when damaged or abused (e.g., mechanical damage or electrical overcharging).
- May burn rapidly with flare-burning effect.
- May ignite other batteries in close proximity.

HEALTH

- Contact with battery electrolyte may be irritating to skin, eyes and mucous membranes.
- Fire will produce irritating, corrosive and/or toxic gases.
- Burning batteries may produce toxic hydrogen fluoride gas (see GUIDE 125).
- Fumes may cause dizziness or asphyxiation.

PUBLIC SAFETY

- CALL 911. Then call emergency response telephone number on shipping paper. If shipping paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Ventilate closed spaces before entering, but only if properly trained and equipped.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing provides thermal protection but only limited chemical protection.

EVACUATION

Immediate precautionary measure

• Isolate spill or leak area for at least 25 meters (75 feet) in all directions.

Large Spill

• Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

• If rail car or trailer is involved in a fire, ISOLATE for 500 meters (1/3 mile) in all directions; also initiate evacuation including emergency responders for 500 meters (1/3 mile) in all directions.

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EMERGENCY RESPONSE

FIRE

Small Fire

• Dry chemical, CO₂, water spray or regular foam.

Large Fire

- Water spray, fog or regular foam.
- If it can be done safely, move undamaged containers away from the area around the fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.
- Do not touch or walk through spilled material.
- Absorb with earth, sand or other non-combustible material.
- Leaking batteries and contaminated absorbent material should be placed in metal containers.

FIRST AID

- Call 911 or emergency medical service.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air if it can be done safely.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.





PACKAGE TEST REQUIREMENTS

Most fully regulated packages of lithium batteries and cells require UN Specification packaging.

All packages of small and medium lithium batteries require some degree of testing. However, small and medium lithium batteries and cells do not require UN Specification packaging

The following pages summarizes package test requirement for the different sizes of batteries shipped via ground (USA), air and vessel.

HAZMATEAM, INC. offers package testing services for small and medium lithium batteries. Call 603-882-1112 for more information or for a quote.

To determine package test requirements, select (click) one of the following

- Small or Medium lithium batteries shipped ground domestic USA
- Small lithium batteries shipped international air
- <u>Small lithium batteries shipped international vessel</u>
- <u>Fully regulated, damaged or prototype lithium batteries requiring UN specification</u> <u>packaging</u>





SMALL AND MEDIUM LITHIUM BATTERIES SHIPPED USA GROUND¹

PACKAGE	VIBRATION TEST ²	DROP TEST ³
Small UN 3480		
Small UN 3090	l	 Image: A start of the start of
Small UN 3481, "packed with"	\bigcirc	\bigcirc
Small UN 3481, "contained in"	\bigcirc	
Small UN 3091, "packed with"	\bigcirc	\bigcirc
Small UN 3091, "contained in"	\bigcirc	
Medium UN 3480	\bigcirc	\bigcirc
Medium UN 3090		\bigcirc
Medium UN 3481, "packed with"	\bigcirc	\bigcirc
Medium UN 3481, "contained in"	\bigcirc	
Medium UN 3091, "packed with"	\bigcirc	\bigcirc
Medium UN 3091, "contained in"	\bigcirc	

- 1- Does not require UN Specification packaging
- 2- 173.185 (b)(1) references 49 CFR 173 Subpart B. 49 CFR 173 Subpart B includes 49 CFR 173.24a(a)(5) vibration testing
- 3- 49 CFR 173.185 (c)(2)







SMALL LITHIUM BATTERIES SHIPPED AIR¹

PACKAGE	VIBRATION TEST ²	DROP TEST ³
Small UN 3480		\bigcirc
Small UN 3090	$\overline{\mathbf{O}}$	\bigcirc
Small UN 3481, "packed with"	\bigcirc	\bigcirc
Small UN 3481, "contained in"	\bigcirc	
Small UN 3091, "packed with"	\bigcirc	\bigcirc
Small UN 3091, "contained in"	\bigcirc	

- 1- Does not require UN Specification packaging
- Section IB of IATA PI 965 & 968 and Section II of PI 966,967,969 & 970 requires compliance with IATA DGR 5.0.2.4. IATA 5.0.2.4 requires shippers to ensure package is capable of withstanding vibrations normally encountered in transport.
- 3- IATA DGR, PI 965 Section IB, PI 966 Section II, PI 968 Section IB and PI 969 Section II







SMALL LITHIUM BATTERIES SHIPPED VESSEL¹

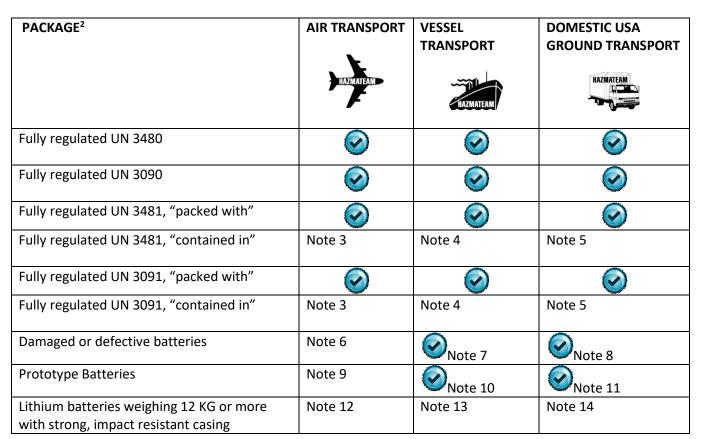
PACKAGE	VIBRATION TEST ²	DROP TEST ³
Small UN 3480		
Small UN 3090	- Č	Optimized and the second se
Small UN 3481, "packed with"	- Č	
Small UN 3481, "contained in"	- Č	
Small UN 3091, "packed with"	- Č	$\overline{\mathbf{O}}$
Small UN 3091, "contained in"	- Č	

- 1- Does not require UN Specification packaging
- 2- IMDG Special Provision 188 paragraph 4 references IMDG 4.1.1.1. IMDG 4.1.1.1 requires shippers to ensure package is capable of withstanding vibrations normally encountered in transport.
- 3- IMDG Special Provision 188 paragraph 7





FULL REGULATED, DAMAGED OR PROTOTYPE LITHIUM BATTERIES REQUIRING



PACKAGING¹

- 1- Unless otherwise specified, must meet PG II performance standards ("X" or "Y" rated packages).
- 2- Assemble according to package closure instructions
- 3- UN packaging not required. IATA 5.0.2.4 requires shippers to ensure package is capable of withstanding vibrations normally encountered in transport.
- 4- UN packaging not required. IMDG 4.1.1.1 requires shippers to ensure package is capable of withstanding vibrations normally encountered in transport.
- 5- UN packaging not required. 49 CFR 173.24a(a)(5) requires shippers to ensure package is capable of withstanding vibrations normally encountered in transport.
- 6- Forbidden for air transport, see IATA SP A154
- 7- Packaged according to IMDG P908
- 8- Packaged according to 49 CFR 173.185 (f) at the PG I performance level ("X" package)
- 9- Forbidden for air transport, unless approval from state of origin see IATA SP A88
- 10- Packaged according to IMDG P910
- 11- Packaged according to 49 CFR 173.185 (e) at the PG I performance level ("X" package)
- 12- UN 3480 and UN 3090 weighing 12 kg or more with strong, impact resistant casing does not require UN packaging. Must have gov't approval. Otherwise, use UN package. See IATA PI 965 and PI 968.
- 13- UN 3480 and UN 3090 weighing 12 kg or more with strong, impact resistant casing does not require UN packaging. See IMDG P903, paragraph (2).
- 14- UN 3480 and UN 3090 weighing 12 kg or more with strong, impact resistant casing does not require UN packaging. See 49 CFR 173.185 (b)(4)





DISCLAIMER

This guide provides a summary of Dangerous Goods (DG) regulatory transportation requirements and does not address product use. HAZMATEAM, INC shall not be held liable for any damage resulting from handling or from contact with the products described in this guide.

The user of this guide must be trained and use the classification, packaging instructions and guidance in the most recent versions of the applicable DG regulations (IMDG, IATA, ICAO, 49 CFR and/or other country specific DG regulations). The user must also consult the battery/equipment manufacturer for item specific transportation safety requirements (including verification a lithium battery has been UN tested). This guide does not address waste shipments: consult federal and state waste regulations for shipping requirements.

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