

Safety Data Sheet P-4611

Making our planet more productive"

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/1979 Revision date: 10/17/2016 Supersedes: 03/20/2015 SECTION: 1. Product and company identification **Product identifier** 1.1. Product form : Substance Name : Hydrogen Sulfide CAS No 7783-06-4 Formula : H2S Other means of identification : Sulfuretted hydrogen, sulfur hydride, hydrosulfuric acid, hepatic gas, stink damp Relevant identified uses of the substance or mixture and uses advised against 1.2. : Industrial use. Use as directed. Use of the substance/mixture Details of the supplier of the safety data sheet 1.3. Praxair, Inc. 10 Riverview Drive Danbury, CT 06810-6268 - USA T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146 www.praxair.com **Emergency telephone number** 1.4. Emergency number : Onsite Emergency: 1-800-645-4633 CHEMTREC, 24hr/day 7days/week - Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887 (collect calls accepted, Contract 17729) **SECTION 2: Hazard identification** 2.1. Classification of the substance or mixture **GHS-US classification** Flam, Gas 1 H220 Liquefied gas H280 Acute Tox. 2 (Inhalation: gas) H330 STOT SE 3 H335 Aquatic Acute 1 H400 Label elements 2.2. **GHS-US** labeling Hazard pictograms (GHS-US) GHS02 GHS04 GHS06 GHS07 GHS09 Signal word (GHS-US) : DANGER : H220 - EXTREMELY FLAMMABLE GAS Hazard statements (GHS-US) H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED

CGA-HG16 - EXTENDED EXPOSURE TO GAS REDUCES THE ABILITY TO SMELL SULFIDES

 Precautionary statements (GHS-US)
 SULFIDES

 : P202 - Do not handle until all safety precautions have been read and understood

 P210 - Keep away from Heat, Open flames, Sparks, Hot surfaces. - No smoking

 P260 - Do not breathe gas

H330 - FATAL IF INHALED

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H335 - MAY CAUSE RESPIRATORY IRRITATION

CGA-HG11 - SYMPTOMS MAY BE DELAYED

CGA-HG04 - MAY FORM EXPLOSIVE MIXTURES WITH AIR

H400 - VERY TOXIC TO AQUATIC LIFE



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	P271+P403 - Use and store only outdoors or in a well-ventilated place
	P273 - Avoid release to the environment
	P280+P284 - Wear protective gloves, protective clothing, eye protection, respiratory protection, and/or face protection
	P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely
	P381 - Eliminate all ignition sources if safe to do so
	P405 - Store locked up
	P501 - Dispose of contents/container in accordance with container Supplier/owner instructions
	CGA-PG05 - Use a back flow preventive device in the piping
	CGA-PG20+CGA-PG10 - Use only with equipment of compatible materials of construction and rated for cylinder pressure
	CGA-PG12 - Do not open valve until connected to equipment prepared for use
	CGA-PG18 - When returning cylinder, install leak tight valve outlet cap or plug
	CGA-PG06 - Close valve after each use and when empty
	CGA-PG29 - Do not depend on odor to detect the presence of gas
	CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)
2.3. Other hazards	
Other hazards not contributing to the classification	: Contact with liquid may cause cold burns/frostbite.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substance		
Name	Product identifier	%
Hydrogen Sulfide (Main constituent)	(CAS No) 7783-06-4	100

3.2. Mixture

Cubata

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician.
First-aid measures after skin contact	: The liquid may cause frostbite. For exposure to liquid, immediately warm frostbite area with warm water not to exceed 105°F (41°C). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately.
First-aid measures after ingestion	: Ingestion is not considered a potential route of exposure.
4.2. Most important symptoms and effect	ts, both acute and delayed
	No additional information available
4.3. Indication of any immediate medical	attention and special treatment needed
Obtain medical assistance. Treat with corticoster	oid spray as soon as possible after inhalation.

SECT	SECTION 5: Firefighting measures		
5.1.	Extinguishing media		
Suitabl	e extinguishing media	: Carbon dioxide, Dry chemical, Water spray or fog. Use extinguishing media appropriate for surrounding fire.	



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5.2.	Special hazards arising from the sub	stance or mixture
Fire haza		 EXTREMELY FLAMMABLE GAS. If venting or leaking gas catches fire, do not extinguish flames. Flammable vapors may spread from leak, creating an explosive reignition hazard. Vapors can be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from product handling point. Explosive atmospheres may linger. Before entering an area, especially a confined area, check the atmosphere with an appropriate device. EXTREMELY FLAMMABLE GAS. Forms explosive mixtures with air and oxidizing agents.
Reactivit	У	: No reactivity hazard other than the effects described in sub-sections below.
5.3.	Advice for firefighters	
Firefighti	ng instructions	: DANGER! Toxic, flammable liquefied gas
		Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L—Fire Protection.
Special p	protective equipment for fire fighters	: Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.
Other inf	ormation	: Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.).
SECTI	ON 6: Accidental release meas	ures
6.1.	Personal precautions, protective equ	ipment and emergency procedures
General	measures	: DANGER! Toxic, flammable liquefied gas . Forms explosive mixtures with air and oxidizing agents. Immediately evacuate all personnel from danger area. Use self-contained breathing apparatus where needed. Remove all sources of ignition if safe to do so. Reduce vapors with fog or fine water spray, taking care not to spread liquid with water. Shut off flow if safe to do so. Ventilate area or move container to a well-ventilated area. Flammable vapors may spread from leak and could explode if reignited by sparks or flames. Explosive atmospheres may linger. Before entering area, especially confined areas, check atmosphere with an appropriate device.
6.1.1.	For non-emergency personnel	No additional information available
6.1.2.	For emergency responders	
		No additional information available
6.2.	Environmental precautions	
		Try to stop release. Reduce vapor with fog or fine water spray. Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution. Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.

6.3. Methods and material for containment and cleaning up No additional information available **Reference to other sections** 6.4. See also sections 8 and 13.

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7.1. Precautions for safe handling	ng
Precautions for safe handling	: Leak-check system with soapy water; never use a flame
	All piped systems and associated equipment must be grounded
	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Use only explosion-proof equipment
	Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g, wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.
7.2. Conditions for safe storage	, including any incompatibilities
Storage conditions	Store only where temperature will not exceed 125°F (52°C). Post "No Smoking/No Open Flames" signs in storage and use areas. There must be no sources of ignition. Separate packages and protect against potential fire and/or explosion damage following appropriate codes and requirements (e.g, NFPA 30, NFPA 55, NFPA 70, and/or NFPA 221 in the U.S.) or according to requirements determined by the Authority Having Jurisdiction (AHJ). Always
	secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand when the container is not in use. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods. For other precautions in using this product, see section 16

None.

SECTION 8: Exposure c	ontrols/personal protection	
8.1. Control parameters		
Hydrogen Sulfide (7783-06-4		
ACGIH	ACGIH TLV-TWA (ppm)	1 ppm
ACGIH	ACGIH TLV-STEL (ppm)	5 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	20 ppm
USA IDLH	US IDLH (ppm)	100 ppm
8.2. Exposure controls Appropriate engineering controls	exhaust and general ventilation must (GENERAL): Inadequate - Use only lighting.	se an explosion-proof local exhaust system. Local be adequate to meet exposure standards. MECHANICAL in a closed system. Use explosion proof equipment and
Eye protection		ylinders; vapor-proof goggles and a face shield during act with product is possible. Select eye protection in 1.133.
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Skin and body protection	 Wear metatarsal shoes and work gloves for cylinder handling, and protective clothing where needed. Wear appropriate chemical gloves during cylinder changeout or wherever contact with product is possible. Select per OSHA 29 CFR 1910.132, 1910.136, and 1910.138.
Respiratory protection	When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).
Thermal hazard protection	 Wear cold insulating gloves when transfilling or breaking transfer connections. Standard EN 511 - Cold insulating gloves. None necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and c	hemical properties
Physical state	: Gas
Appearance	: Colorless gas. Colorless liquid at low temperature or under high pressure.
Molecular mass	: 34 g/mol
Color	: Colorless.
Odor	: Odor can persist. Poor warning properties at low concentrations. Rotten eggs.
Odor threshold	: Odor threshold is subjective and inadequate to warn for overexposure.
рН	: Not applicable.
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: Not applicable.
Melting point	: -86 °C
Freezing point	: No data available
Boiling point	: -60.3 °C
Flash point	: Not applicable.
Critical temperature	: 100.4 °C
Auto-ignition temperature	: 260 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: 4.3 - 46 vol %
Vapor pressure	: 1880 kPa
Critical pressure	: 8940 kPa
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Relative gas density	: 1.2
Solubility	: Water: 3980 mg/l
Log Pow	: Not applicable.
Log Kow	: Not applicable.
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.
Explosive properties	: Not applicable.
Oxidizing properties	: None.
Explosion limits	: No data available
9.2. Other information	
Gas group	: Liquefied gas
Additional information	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level



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SECT	ION 10: Stability and reactivity	
10.1.	Reactivity	
		No reactivity hazard other than the effects described in sub-sections below.
10.2.	Chemical stability	
		Stable under normal conditions.
10.3.	Possibility of hazardous reactions	
		May react violently with oxidants. Can form explosive mixture with air.
10.4.	Conditions to avoid	
		Avoid moisture in installation systems. Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
10.5.	Incompatible materials	
		Ammonia. Bases. Bromine pentafluoride. Chlorine trifluoride. chromium trioxide. (and heat). Copper. (powdered). Fluorine. Lead. Lead oxide. Mercury. Nitric acid. Nitrogen trifluoride. nitrogen sulfide. Organic compounds. Oxidizing agents. Oxygen difluoride. Rubber. Sodium. (and moisture). Water.
10.6.	Hazardous decomposition products	
		Thermal decomposition may produce : Sulfur. Hydrogen.
SECT	ION 11: Toxicological information	on de la constante de la const
44.4	Information on toxicological offects	

11.1. Information on toxicological effects

Acute toxicity	: Inhalation:gas: FATAL IF INHALED.
Hydrogen Sulfide (\f)7783-06-4	
LC50 inhalation rat (mg/l)	700 mg/m³ (Exposure time: 4 h)
LC50 inhalation rat (ppm)	356 ppm/4h
ATE US (gases)	356.000 ppmV/4h
ATE US (vapors)	0.990 mg/l/4h
ATE US (dust, mist)	0.990 mg/l/4h
Skin corrosion/irritation :	Not classified
	pH: Not applicable.
Serious eye damage/irritation :	Not classified
	pH: Not applicable.
Respiratory or skin sensitization :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: MAY CAUSE RESPIRATORY IRRITATION.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological inform	ation
12.1. Toxicity	
Ecology - general	: VERY TOXIC TO AQUATIC LIFE.
Hydrogen Sulfide (7783-06-4)	
LC50 fish 1	0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
LC50 fish 2	0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

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12.2. Persistence and degradability	
Hydrogen Sulfide (7783-06-4)	
Persistence and degradability	Not applicable for inorganic gases.
2.3. Bioaccumulative potential	
Hydrogen Sulfide (7783-06-4)	
BCF fish 1	(no bioaccumulation expected)
Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No data available.
2.4. Mobility in soil	
Hydrogen Sulfide (7783-06-4)	
Mobility in soil	No data available.
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
12.5. Other adverse effects	
Other adverse effects	: May cause pH changes in aqueous ecological systems.
Effect on ozone layer	: None
Effect on the global warming	: No known effects from this product
	. No known enects normans product
SECTION 13: Disposal consideratior	IS
3.1. Waste treatment methods	
Regional legislation (waste)	: U.S RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261. U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics.
Naste disposal recommendations	: Do not attempt to dispose of residual or unused quantities. Return container to supplier.
SECTION 14: Transport information	
n accordance with DOT	
Transport document description	: UN1053 Hydrogen sulfide, 2.3
JN-No.(DOT)	: UN1053
Proper Shipping Name (DOT)	: Hydrogen sulfide
Class (DOT)	: 2.3 - Class 2.3 - Poisonous gas 49 CFR 173.115
Hazard labels (DOT)	: Poison Gas 2.3 - Poison gas 2.1 - Flammable gas
	2 NHALATION HAZARD 2
DOT Special Provisions (49 CFR 172.102)	 2 - This material is poisonous by inhalation (see 171.8 of this subchapter) in Hazard Zone B (see 173.116(a) or 173.133(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter B9 - Bottom outlets are not authorized B14 - Each bulk packaging, except a tank car or a multi-unit-tank car tank, must be insulated with an insulating material so that the overall thermal conductance at 15.5 C (60 F) is no more than 1.5333 kilojoules per hour per square meter per degree Celsius (0.075 Btu per hour per square foot per degree Fahrenheit) temperature differential. Insulating materials must not promote corrosion to steel when wet N89 - When steel UN pressure receptacles are used, only those bearing the "H" mark are authorized
Additional information	
Emergency Response Guide (ERG) Number	: 117



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Other information	: No supplementary information available.
Special transport precautions	 Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure there is adequate ventilation Ensure that containers are firmly secured Ensure cylinder valve is closed and not leaking Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
Transport by sea	
UN-No. (IMDG)	: 1053
Proper Shipping Name (IMDG)	: HYDROGEN SULPHIDE
Class (IMDG)	: 2 - Gases
MFAG-No	: 117
Air transport	
UN-No. (IATA)	: 1053
Proper Shipping Name (IATA)	: Hydrogen sulphide
Class (IATA)	: 2

: Gases under pressure/Gases toxic under pressure

SECTION 15: Regulatory information	
15.1. US Federal regulations	
Hydrogen Sulfide (7783-06-4)	
Listed on the United States TSCA (Toxic Substand	ces Control Act) inventory
Listed on the United States SARA Section 302	
Subject to reporting requirements of United States	SARA Section 313
CERCLA RQ	100 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb
SARA Section 311/312 Hazard Classes	Sudden release of pressure hazard Immediate (acute) health hazard Fire hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	1.0 %

15.2. International regulations

Civil Aeronautics Law

CANADA

Hydrogen Sulfide (7783-06-4)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

Hydrogen Sulfide (7783-06-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)



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	15.2.2.	National	regulations
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Hydrogen Sulfide (7783-06-4)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations	
Hydrogen Sulfide(7783-06-4)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other informa	ation
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Other information

: When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product

Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information

The opinions expressed herein are those of qualified experts within Praxair, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair, Inc, it is the user's obligation to determine the conditions of safe use of the product

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NFPA health hazard	: 4 - Very short exposure could cause death or serious residual injury even though prompt medical attention was given.
NFPA fire hazard	: 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 4 Severe Hazard
Physical	: 2 Moderate Hazard

Physical

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.