

Safety Data Sheet P-4646

Making our planet more productive[®] This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Date of issue: 01/01/1984 Revision date: 01/21/2016 Supersedes: 04/08/2015

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SECTION: 1. Product and con	npany identification
1.1. Product identifier	
Product form	: Substance
Name	: Propane
CAS No	: 74-98-6
Formula	: C3H8
Other means of identification	: Propane, Liquefied Petroleum Gas, n-propane, dimethylmethane, propyl hydride, refrigerant gas R290
1.2. Relevant identified uses of	the substance or mixture and uses advised against
Use of the substance/mixture	: Industrial use. Use as directed.
1.3. Details of the supplier of the	e safety data sheet
Praxair, Inc. 39 Old Ridgebury Road Danbury, CT 06810-5113 - USA T 1-800-772-9247 (1-800-PRAXAIR) - F www.praxair.com	
1.4. Emergency telephone num	
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	tion
2.1. Classification of the substa	nce or mixture
GHS-US classification	
Flam. Gas 1 H220 Liquefied gas H280	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS02 GHS04
Signal word (GHS-US)	: DANGER
Hazard statements (GHS-US)	: H220 - EXTREMELY FLAMMABLE GAS H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION CGA-HG04 - MAY FORM EXPLOSIVE MIXTURES WITH AIR CGA-HG01 - MAY CAUSE FROSTBITE
Precautionary statements (GHS-US)	 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 P271+P403 - Use and store only outdoors or in a well-ventilated place P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely P381 - Eliminate all ignition sources if safe to do so CGA-PG05 - Use a back flow preventive device in the piping CGA-PG12 - Do not open valve until connected to equipment prepared for use CGA-PG06 - Close valve after each use and when empty CGA-PG11 - Never put cylinders into unventilated areas of passenger vehicles CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)

EN (English US)



Other heread

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2.3.	Other nazarus				
Other ha		: Contact with liquid may caus	e cold burns/frostbite.		
2.4.	Unknown acute toxicity (GHS US)				
		No data available			
SECTI	ON 3: Composition/Information	on ingredients			
3.1.	Substance				
Name		Product identifier	%]	
Propane		(CAS No) 74-98-6	100	-	
(Main cor					
3.2.	Mixture				
Not appl	icable				
SECTI	ON 4: First aid measures				
4.1.	Description of first aid measures				
First-aid	measures after inhalation			elf contained breathing apparatus. Keep ial respiration if breathing stopped.	
First-aid	measures after skin contact	: The liquid may cause frostbit warm water not to exceed 10 Maintain skin warming for at	e. For exposure to liq 5°F (41°C). Water ter least 15 minutes or u . In case of massive e	uid, immediately warm frostbite area with nperature should be tolerable to normal skir ntil normal coloring and sensation have xposure, remove clothing while showering	۱.
First-aid	measures after eye contact	, ,	sure that all surfaces	t least 15 minutes. Hold the eyelids open an are flushed thoroughly. Contact an cal attention.	ıd
First-aid	measures after ingestion	: Ingestion is not considered a	potential route of exp	osure.	
4.2.	Most important symptoms and effect	s, both acute and delayed			
		No additional information ava	ilable		
4.3.	Indication of any immediate medical	attention and special treatme	nt needed		
None.					
SECTI	ON 5: Firefighting measures				
5.1.	Extinguishing media				
Suitable	extinguishing media	: Carbon dioxide, dry chemica	l powder, water spray	, fog.	
5.2.	Special hazards arising from the sub	stance or mixture		-	
			CAS If venting or lea	king goo ootoboo firo, do not ovtinguich	
Fire haza	aru	flames. Flammable vapors r Vapors can be ignited by pilo equipment, static discharge,	nay spread from leak, ot lights, other flames, or other ignition sourc s may linger. Before	king gas catches fire, do not extinguish creating an explosive reignition hazard. smoking, sparks, heaters, electrical es at locations distant from product handling entering an area, especially a confined area	0
Explosio	n hazard	EXTREMELY FLAMMABLE	GAS. Forms explosive	e mixtures with air and oxidizing agents.	
Reactivit	ty	: No reactivity hazard other the			
5.3.	Advice for firefighters				
Firefighti	ing instructions	and protective clothing. Imm flow of gas if safe to do so, w safe to do so. Remove conta	ediately cool containe hile continuing coolin iners from area of fire	e self-contained breathing apparatus (SCBA ers with water from maximum distance. Stop g water spray. Remove ignition sources if if safe to do so. On-site fire brigades must ole standards under 29 CFR 1910 Subpart	
Protectio	on during firefighting	: Compressed gas: asphyxian	t. Suffocation hazard I	by lack of oxygen.	
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Special protective equipment for fire fighters	: Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.
Specific methods	: Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas containers to rupture. Cool endangered containers with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems
	Stop flow of product if safe to do so
	Use water spray or fog to knock down fire fumes if possible.
Other information	 Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.).

6.1.	Personal precautions, protective equi	pment and emergency procedures
General	measures	Wear self-contained breathing apparatus when entering area unless atmosphere is proven to be safe. Evacuate area. Ensure adequate air ventilation. Stop leak if safe to do so.
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.
6.3.	Methods and material for containment	t and cleaning up
		No additional information available
6.4.	Reference to other sections	
		See also sections 8 and 13.
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precauti	ons for safe handling	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

in using this product, see section 16.

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

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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 or 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 16OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product
under pressure, use piping and equipment adequately designed to withstand the pressures to
be encountered. Never work on a pressurized system. Use a back flow preventive device in the

piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control para	meters		
Propane (74-98-6)			
USA OSHA	OSHA PEL (TWA) (mg/m³)	1800 mg/m ³	
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	
USA IDLH	US IDLH (mg/m ³)	< mg/m ³	
USA IDLH	US IDLH (ppm)	2100 ppm (10% LEL)	
ACGIH	Not established		

8.2. Exposure controls	
Appropriate engineering controls	: An explosion-proof local exhaust system or a mechanical system is acceptable if it can prevent oxygen deficiency and keep hazardous fumes and gases below all applicable exposure limits in the worker's breathing area. During welding, ensure that there is adequate ventilation to keep worker exposure below applicable limits for fumes, gases, and other by-products of welding. Do not breathe fumes or gases. Short-term overexposure to fumes may cause dizziness, nausea, and dryness or irritation of the nose, throat, and eyes, or may cause other similar discomfort.
Eye protection	: Wear safety glasses with side shields.
Skin and body protection	As needed for welding, wear hand, head, and body protection to help prevent injury from radiation and sparks. (See ANSI Z49.1.) At a minimum, this includes welder's gloves and protective goggles, and may include arm protectors, aprons, hats, and shoulder protection as well as substantial clothing.
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 (e.g., an organic vapor cartridge). 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.
Environmental exposure controls	: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.
Other information	: Consider the use of flame resistant anti-static safety clothing. Wear safety shoes while handling containers.



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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	chemical properties	
Physical state	: Gas	
Appearance	: Colorless gas.	
Molecular mass	: 44 g/mol	
Color	: Colorless.	
Odor	: Poor warning properties at low concentrations. Stenchant often added. Sweetish.	
Odor threshold	: No data available	
рН	: Not applicable.	
Relative evaporation rate (butyl acetate=1)	: No data available	
Relative evaporation rate (ether=1)	: Not applicable.	
Melting point	: No data available	
Freezing point	: -187.69 °C (-305.8°F)	
Boiling point	: -42.1 °C (-44.32°F)	
Flash point	: -104.4 °C (-155.2°F) TCC	
Critical temperature	: 96.8 °C (206°F)	
Auto-ignition temperature	: 450 °C (842°F)	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: 2.1 - 9.5 vol %	
Vapor pressure	: 8.58 bar (109.73 psig)	
Relative vapor density at 20 °C	: No data available	
Relative density	: 0.58	
Density	: 0.506 - 0.583 g/cm³ (at 15 °C)	
Relative gas density	: 1.5	
Solubility	: Water: 75 mg/l	
Log Pow	: 2.36	
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	
SECTION 10: Stability and reactivity	у .	
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		
	Can form explosive mixture with air. May react violently with oxidants.	
10.4. Conditions to avoid		
	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.	
10.5. Incompatible materials		
	Air, Oxidizer. Chlorine dioxide.	
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10.6. Hazardous decomposition products

Thermal decomposition or burning may produce carbon monoxide, carbon dioxide, and hydrogen. The welding and cutting process may form reaction products such as carbon monoxide and carbon dioxide. Other decomposition products of normal operation originate from the volatilization, reaction, or oxidation of the material being worked.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Propane (\f)74-98-6	
LC50 inhalation rat (mg/l)	658 mg/l/4h
ATE US (vapors)	658.000 mg/l/4h
ATE US (dust, mist)	658.000 mg/l/4h
Skin corrosion/irritation :	Not classified
Serious eye damage/irritation :	pH: Not applicable. Not classified pH: Not applicable.
Respiratory or skin sensitization :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
1	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	on
12.1. Toxicity	
Ecology - general	: No ecological damage caused by this product.
2.2. Persistence and degradability	
Propane (74-98-6)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
12.3. Bioaccumulative potential	
Propane (74-98-6)	
Log Pow	2.36
Log Kow	Not applicable.
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
12.4. Mobility in soil	
Propane (74-98-6)	
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	
Effect on ozone layer	: None
Effect on the global warming	: No known effects from this product

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SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.
SECTION 14: Transport information	
In accordance with DOT	
Transport document description	: UN1978 Propane (see also Petroleum gases, liquefied [UN1075]), 2.1
UN-No.(DOT)	: UN1978
Proper Shipping Name (DOT)	: Propane
	see also Petroleum gases, liquefied [UN1075]
Class (DOT)	: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT)	: 2.1 - Flammable gas
DOT Special Provisions (49 CFR 172.102)	 19 - For domestic transportation only, the identification number UN1075 may be used in place
	of the identification number specified in column (4) of the 172.101 table. The identification number used must be consistent on package markings, shipping papers and emergency response information T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of this subchapter
Additional information	
Emergency Response Guide (ERG) Number	: 115 (UN1075)
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 Ensure valve protection device (where provided) is correctly fitted.
Transport by sea	
UN-No. (IMDG)	: 1978
Proper Shipping Name (IMDG)	: PROPANE
Class (IMDG)	: 2 - Gases
MFAG-No	: 115
Air transport	
UN-No. (IATA)	: 1978
Proper Shipping Name (IATA)	: PROPANE
Class (IATA)	: 2
Civil Aeronautics Law	: Gases under pressure/Gases flammable under pressure
SECTION 15: Regulatory information	

SECTION 15. Regulatory informatio	
15.1. US Federal regulations	
Propane (74-98-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard Sudden release of pressure hazard Fire hazard	

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Propane (74-98-6)

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Propane (74-98-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Propane (74-98-6)

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

15.2.2. National regulations

Propane (74-98-6)

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 INSQ (Mexican national Inventory of Chemical Substances) Listed on CICR (Turkish Inventory and Control of Chemicals)

15.3. US State regulations		
Propane(74-98-6)		
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) List	

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm



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SECTION 16: Other information	
Other information	: When using this product in welding and cutting, read and understand the manufacturer's instructions and the precautionary label on the product. Ask your welding products supplier for a copy of Praxair's free safety booklet, P-2035, Precautions and Safe Practices for Gas Welding, Cutting, and Heating, and for other manufacturers' safety publications. For a detailed treatment, get ANSI Z49.1, Safety in Welding, Cutting, and Allied Processes, published by the American Welding Society (AWS), www.aws.org. Order AWS documents from Global Engineering Documents, global.ihs.com. Arcs and sparks can ignite combustible materials. Prevent fires. Refer to NFPA 51B, Standard for Fire Prevention During Welding, Cutting, and Other Hotwork. Do not strike an arc on the container. The defect produced by an arc burn may lead to container rupture
	Fumes and gases produced during welding and cutting processes can be dangerous to your health and may cause serious lung disease. KEEP YOUR HEAD OUT OF FUMES. DO NOT BREATHE FUMES AND GASES. Use enough ventilation, local exhaust, or both to keep fumes and gases from your breathing zone and the general area. Short-term overexposure to fumes may cause dizziness, nausea, and dryness or irritation of the nose, throat, and eyes; or may cause other similar discomfort. Contaminants in the air may add to the hazard of fumes and gases
	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
	Praxair SDSs are furnished on sale or delivery by Praxair or the independent distributors and suppliers who package and sell our products. To obtain current SDSs for these products, contact your Praxair sales representative, local distributor, or supplier, or download from www.praxair.com. If you have questions regarding Praxair SDSs, would like the document number and date of the latest SDS, or would like the names of the Praxair suppliers in your area, phone or write the Praxair Call Center (Phone: 1-800-PRAXAIR/1-800-772-9247; Address: Praxair Call Center, Praxair, Inc., P.O. Box 44, Tonawanda, NY 14151-0044)
	PRAXAIR and the Flowing Airstream design are trademarks or registered trademarks of Praxair Technology, Inc. in the United States and/or other countries.
NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is 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.



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HMIS III Rating

Health Flammability Physical

- : 1 Slight Hazard Irritation or minor reversible injury possible
- : 4 Severe Hazard
- : 2 Moderate Hazard

SDS US (GHS HazCom 2012) - Praxair

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.