

Safety Data Sheet P-4648

Making our planet more productive"

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Date of issue: 01/01/1983 Revision date: 04/08/2015

Supersedes: 01/13/2015

	Date of issue: 01/01/1983 Revision date: 04/08/2015 Supersedes: 01/13/2015
SECTION: 1. Product and co	ompany identification
1.1. Product identifier	
Product form	: Substance
Name	: Propylene
CAS No	: 115-07-1
Formula	: C3H6
1.2. Relevant identified uses of	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 safety data sheet
Praxair, Inc. 39 Old Ridgebury Road Danbury, CT 06810-5113 - USA T 1-800-772-9247 (1-800-PRAXAIR) www.praxair.com	
1.4. Emergency telephone nu	
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: Hazards identif	ication
2.1. Classification of the subs	stance or mixture
Classification (GHS-US) 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).
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Other hazards

2.3.	Other hazards			
Other has classification		Contact with liquid may cause	e cold burns/frostbite.	
2.4.	Unknown acute toxicity (GHS US)			
		No data available		
SECTION	ON 3: Composition/information	on ingredients		
3.1.	Substance			
Name		Product identifier	%	
Propyler (Main con		(CAS No) 115-07-1	100	
3.2.	Mixture			
Not appli				
SECTION	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	warm water not to exceed 10 Maintain skin warming for at	5°F (41°C). Water ten least 15 minutes or ur In case of massive e	uid, immediately warm frostbite area with nperature should be tolerable to normal skin. ntil normal coloring and sensation have xposure, remove clothing while showering atment as soon as possible.
First-aid	measures after eye contact		ughly with water for a sure that all surfaces	t least 15 minutes. Hold the eyelids open and are flushed thoroughly. Contact an cal attention.
First-aid	measures after ingestion	Ingestion is not considered a	potential route of exp	osure.
4.2.	Most important symptoms and effects	, both acute and delayed		
		No additional information ava	ilable	
4.3.	Indication of any immediate medical a	ttention and special treatmer	nt needed	
None.				
SECTION	ON 5: Firefighting measures			
5.1.	Extinguishing media			
Suitable	extinguishing media	Carbon dioxide, Dry chemica	I, Water spray or fog.	
5.2.	Special hazards arising from the subs	tance or mixture		
Fire haza	ard	flames. Flammable vapors n Vapors can be ignited by pilo equipment, static discharge,	nay spread from leak, t lights, other flames, or other ignition sourc	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,
		check the atmosphere with a	n appropriate device.	
Explosio	n hazard	•		e mixtures with air and oxidizing agents.
Explosion Reactivity		•	GAS. Forms explosive	8 8
		EXTREMELY FLAMMABLE	GAS. Forms explosive	8 8
Reactivit	Advice for firefighters	EXTREMELY FLAMMABLE No reactivity hazard other that Evacuate all personnel from the and protective clothing. Imm flow of gas if safe to do so, w safe to do so. Remove contain	GAS. Forms explosive an the effects describe the danger area. Use ediately cool containe hile continuing cooling iners from area of fire	8 8
Reactivity 5.3. Firefightin	y Advice for firefighters ng instructions	EXTREMELY FLAMMABLE No reactivity hazard other that Evacuate all personnel from the and protective clothing. Imm flow of gas if safe to do so, w safe to do so. Remove contai comply with OSHA 29 CFR 1	GAS. Forms explosive an the effects describe the danger area. Use ediately cool containe hile continuing cooling iners from area of fire 910.156 and applicat	ed in sub-sections below. 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
Reactivity 5.3. Firefightin Protectio	y Advice for firefighters ng instructions	EXTREMELY FLAMMABLE No reactivity hazard other that Evacuate all personnel from the and protective clothing. Imm flow of gas if safe to do so, w safe to do so. Remove conta comply with OSHA 29 CFR 1 L—Fire Protection. Compressed gas: asphyxiant	GAS. Forms explosive an the effects describe the danger area. Use ediately cool containe hile continuing cooling iners from area of fire 910.156 and applicat	ed in sub-sections below. 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



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 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.

Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive reignition may occur. Extinguish any other fire.

SECT	ION 6: Accidental release meas	ures
6.1.	Personal precautions, protective equ	lipment and emergency procedures
Genera	measures	: Eliminate ignition sources. Evacuate area. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Wear self-contained breathing apparatus when entering area unless atmosphere is proven to be safe. Ensure adequate 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. 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 containme	nt and cleaning up
		No additional information available
6.4.	Reference to other sections	
		See also sections 8 and 13.
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	ions 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 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.



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7.2.	Conditions	for safe storage.	including any	y 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 16.
	OTHER 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)

8.2.

None.

SECTION 8: Exposure controls/personal protection

SECTION 0: Physical and chemical propertie

8.1. Control paramete	rs		
Propylene (115-07-1)			
ACGIH	ACGIH TLV-TWA (ppm)	500 ppm	
USA OSHA	Not established		

Exposure controls : During welding, ensure that there is adequate ventilation to keep worker exposure below Appropriate engineering controls 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. Use an explosionproof local exhaust system. Local exhaust and general ventilation must be adequate to meet exposure standards. MECHANICAL (GENERAL): Inadequate - Use only in a closed system. Use explosion proof equipment and lighting. Wear working gloves when handling gas containers. Wear work gloves when handling Hand protection containers; welding gloves for welding. Gloves must be free of oil and grease. Eye protection Wear safety glasses with side shields or goggles when transfilling or breaking transfer connections. Wear safety glasses with side shields. 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. Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for Environmental exposure controls specific methods for waste gas treatment. Other information Wear safety shoes while handling containers. Consider the use of flame resistant anti-static safety clothing. Wear leather safety gloves and safety shoes when handling cylinders.

SECH	on 9. Physical and chemical properties		
9.1.	Information on basic physical and chemical pro	perties	
Physical	state : Gas		
Appeara	nce : Colorless	s gas.	
Molecula	r mass : 42 g/mol		
Color	: Colorless	۶.	
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Odor	: Stenchant often added. Sweetish.
Odor threshold	: Odour 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	: No data available
Freezing point	: -185.25 °C (-301.45°F)
Boiling point	: -47.72 °C (-53.9°F)
Flash point	: -107.8 °C (-162°F)
Critical temperature	: 91.8 °C (197.24°F)
Auto-ignition temperature	: 455 °C (851°F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: 2-11.1
Vapor pressure	: 10.2 bar (132.81 psig)
Relative vapor density at 20 °C	: No data available
Relative density	: 0.6
Density	: 0.5139 g/cm ³ (at 20 °C)
Relative gas density	: 1.5
Solubility	: Water: 384 mg/l
Log Pow	: 1.77
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

: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.

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	
		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	
		Oxidizing agent. Acids. Halogens.
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.

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SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	Not classified
Propylene (\f)115-07-1	
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
	pH: Not applicable.
Serious eye damage/irritation :	Not classified
	pH: Not applicable.
1 ,	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Propylene (115-07-1)	
IARC group	3 - Not classifiable
Reproductive toxicity	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	
12.1. Toxicity	
	No ecological damage caused by this product.
12.2. Persistence and degradability	
Propylene (115-07-1)	
Persistence and degradability	The substance is biodegradable. Unlikely to persist.
12.3. Bioaccumulative potential	
Propylene (115-07-1)	
Log Pow	1.77
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	
Propylene (115-07-1)	
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	
	: None.
	No known effects from this product.
SECTION 13: Disposal considerations	;
13.1. Waste treatment methods	
Waste disposal recommendations	Dispose of contents/container in accordance with local/regional/national/international

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SECTION 14: Transport information	
In accordance with DOT	
Transport document description	: UN1077 Propylene, 2.1
UN-No.(DOT)	: UN1077
Proper Shipping Name (DOT)	: Propylene
	: 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.
Transport by sea	
	: 1077
Proper Shipping Name (IMDG)	PROPYLENE
	: 2 - Gases
	: 115
Air transport	
-	: 1077
	: Propylene
Class (IATA)	: 2
Civil Aeronautics Law	Gases under pressure/Gases flammable under pressure
SECTION 15: Regulatory information	
15.1. US Federal regulations	
Propylene (115-07-1)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
Listed on United States SARA Section 313	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard Sudden release of pressure hazard Delaved (akonia) health hazard
SARA Section 313 - Emission Reporting	Delayed (chronic) health hazard 1.0 %
	All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory.

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Chemical(s) subject to the reporting requirements of Section 313 or Title II Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 Part 372.		
Propylene	CAS No 115-07-1 100%	

15.2. International regulations

CANADA

Propylene (115-07-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Propylene (115-07-1)

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

15.2.2. National regulations

Propylene (115-07-1)

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)

15.3. US State regulations

Propylene(115-07-1)	
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

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

SECTION 16: Other information

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roductive" according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/1983 Revision date: 04/08/2015 Supersedes: 01/13/2015 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. : 2 - Intense or continued exposure could cause temporary NFPA health hazard 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 : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently. **HMIS III Rating** Health : 1 Slight Hazard - Irritation or minor reversible injury possible : 4 Severe Hazard Flammability Physical : 2 Moderate Hazard

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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.