

covering steps to be taken in the event of an accidental release.

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.

Precautions To Be Taken in Storing:

Cylinders should be stored and used in dry, well-ventilated areas away from sources of heat or ignition. Store away from oxidizers.

Other Precautions:

NOTE:

See General Hygiene as well.

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.

General hygiene:

Eating, drinking and smoking in areas where this product is used or stored should be strictly prohibited.

Wash face and hands and removed contaminated clothing before entering places that eating, drinking, and smoking occur.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
115-07-1	Propylene	No data.	TLV: Simple asphyxiant ppm	No data.
Respiratory Equipment (Specify Type):	If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.			
Eye Protection:	Wear safety glasses when handling cylinders; vapor-proof goggles and a face shield during cylinder change out or whenever contact with product is possible. Select eye protection in accordance with OSHA 29 CFR 1910.133.			
Protective Gloves:	Wear appropriate gloves to prevent skin exposure.			
Other Protective Clothing:	Fire resistant clothing, or FRC, should be used by all personnel exposed to the product.			
Engineering Controls (Ventilation etc.):	Use explosion-proof ventilation equipment.			
Work/Hygienic/Maintenance Practices:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.			
Exposure control:	Use only with proper ventilation. Use ventilation equipment that ensures operator exposure below recommended levels.			
General hygiene:	Eating, drinking and smoking in areas where this product is used or stored should be strictly prohibited. Wash face and hands and removed contaminated clothing before entering place.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[X] Gas [] Liquid [] Solid
Appearance and Odor:	Appearance: colorless. Odor: Characteristic natural gas odor.
	Specific volume: 0.567 m3/kg, 9.06 ft3/lb @ 1 am, 21.1C.
	Solubility in Water: 22.05 cm3/100 ml @ 1 atm, 20C.
Freezing Point:	-185 C (-301 F)
Boiling Point:	-47.7 C (-53.9 F)
Decomposition Temperature:	NA
Autoignition Pt:	480 C (896 F)
Flash Pt:	NA Method Used: Not Applicable
Explosive Limits:	LEL: 2.1% (V) UEL: 10.1% (V)
Specific Gravity (Water = 1):	NA
Density:	1.48 @ 1 atm at 20.0 C (68.0 F)
Bulk density:	NA
Vapor Pressure (vs. Air or mm Hg):	136.5 PSI at 21.1 C (70.0 F)
Vapor Density (vs. Air = 1):	NA
Evaporation Rate:	NA
Solubility in Water:	NA
Saturated Vapor Concentration:	NA
Viscosity:	NA
pH:	NA
Percent Volatile:	NA
VOC / Volume:	NA
Particle Size:	NA
Heat Value:	NA
Corrosion Rate:	NA
Molecular Formula & Weight:	C3H6 42.081

10. STABILITY AND REACTIVITY

Reactivity:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Heat, flames and sparks. No smoking. Do not weld, braze, solder, grind, or cut with product present.
Incompatibility - Materials To Avoid:	Oxidizing materials.
Hazardous Decomposition Or Byproducts:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Mutagenicity: No information available.
Neurotoxicity: No information available.

Other Studies: CAS# 115-07-01:
Acute toxicity, LC, Inhalation, Species: Rat, 86 g/m3, 4H.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information: Environmental: No information available.
Physical: No information available.

Results of PBT and vPvB assessment: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: Product/Ingredient name: Propylene Log Pow 1.77 BCF Potential Low

Mobility in Soil:

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Do not attempt to dispose of residual or unused quantities. Return container to supplier.
Dispose of contents/containers in accordance with local/regional/national/international regulations.

14. TRANSPORT INFORMATION

TRANSPORTATION DOCUMENT DESCRIPTION: UN1077 Propylene (see also Petroleum gases, liquefied (UN1075). 2.1

DOT Proper Shipping Name: Propylene. see also Petroleum gases, liquefied (UN1075).

DOT Hazard Class: 2.1 FLAMMABLE GAS

UN/NA Number: UN1077

DOT Special Provisions (49 CFR172.102)

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.

**15. REGULATORY INFORMATION**

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
115-07-1	Propylene	No	No	Yes

CAS #	Hazardous Components (Chemical Name)
115-07-1	Propylene

Other US EPA or State Lists

TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1609; NY Part 597: No; PA HSL: Yes - E; SC TAP: No; WI Air: No

CAS #	Hazardous Components (Chemical Name)
115-07-1	Propylene

International Regulatory Lists

Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes - 1075; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - (2)-13; Korea ECL: Yes -

16. OTHER INFORMATION

Revision Date: 03/22/2015

Additional Information About This Product: No data available.

This Product:

Company Policy or

Disclaimer:

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