



MATERIAL SAFETY DATA SHEET

PROPYLENE

HO 1

HoloX, Lt.
1500 Indian Trail Road
Norcross, Georgia 30093
(770) 925-4640

Page: 1
Rev. Date
10/02/95

Telephone Number: (770) 925-4640
Emergency Contact: CHEMTREC
Emergency Phone Number: (800) 424-9300

SECTION #1 - IDENTIFICATION

Product: PROPYLENE

CAS Number: 115-07-1
Product Code: MSDS CODE HO-1
Chemical Family: Olefin
Chemical Formula: C₃H₆

Synonyms: G-1

NFPA Hazard Rating: - Health:
- Fire:
- Reactivity:
- Special:

SECTION #2 - CHEMICAL COMPONENTS

Component: PROPYLENE
CAS Number: 115-07-1
Percent of Mixture:

SECTION #3 - PHYSICAL DATA

Boiling Point: - 47°C (- 53°F)
Melting Point: - 188°C (- 301°F)
Vapor Pressure: 10 atm @ 79.8°C
Specific Gravity: 0.5139
Solubility (H₂O): Insoluble

APPEARANCE

Colorless gas.

ODOR

Odorless gas.

SECTION #4 - FIRE FIGHTING & EXPLOSION DATA

Flash Point: - 180°C (- 162°F)
Lower Explosive Limit (%): 2.0
Upper Explosive Limit (%): 11.1

FIRE AND EXPLOSION HAZARDS

Electrical Classification:

EXTINGUISHING MEDIA

Foam (preferred), dry chemical, water.

SPECIAL FIRE FIGHTING INSTRUCTIONS

Stop flow of gas or liquid. Let fire burn out. Water may be an ineffective extinguishing media. Use foam to blanket spill. Use water to cool fire-exposed containers, structures, and to protect personnel. Wear self-contained breathing apparatus.

SECTION #5 - EXPOSURE AND EFFECTS - INHALATION

ROUTES OF EXPOSURE - INHALATION

At high concentration this gas may act as a simple asphyxiant. Symptoms may include nausea, vomiting, unconsciousness and possible death.

FIRST AID - INHALATION

Remove from exposure. If breathing has stopped or is difficult, administer artificial respiration or oxygen as indicated. Seek medical aid.

SECTION #5 - EXPOSURE AND EFFECTS - SKIN

ROUTES OF EXPOSURE - SKIN

Liquefied gases may cause frostbite.

FIRST AID - SKIN

Keep affected area warm. If possible, submerge affected area in lukewarm water. Stimulate circulation in affected area by massage. Seek medical aid.

SECTION #5 - EXPOSURE AND EFFECTS - EYES

ROUTES OF EXPOSURE - EYES

Liquefied gases may cause frostbite. May cause irritation.

FIRST AID - EYES

Flush immediately with large amounts of lukewarm water. Seek medical aid.

SECTION #5 - MISCELLANEOUS TOXICOLOGICAL INFORMATION

Carcinogenicity — NTP: No IARC: No OSHA: No

SECTION #6 - REACTIVITY & POLYMERIZATION

Stability: Unstable

CONDITIONS TO AVOID (STABILITY)

All sources of heat and ignition.

INCOMPATIBLE MATERIALS

May react with oxidizing agents.

Hazardous Polymerization: Will Not Occur.

SECTION #7 - SPILL, LEAK, & DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN THE EVENT OF SPILLS, LEAKS, OR RELEASE

Evacuate area. Eliminate ALL sources of ignition. Stop flow, if without risk. Avoid excessive inhalation. Avoid skin contact. Keep upwind and isolate exposure area.

WASTE DISPOSAL METHODS

Move cylinder to a safe and open area, if leak is irreparable. Allow gas to dissipate into the atmosphere.

SARA Hazard Classes:

SECTION #8 - SPECIAL PROTECTIVE MEASURES

VENTILATION

EYE PROTECTION

Chemical goggles.

SKIN PROTECTION

Wear thermal protective clothing and heavy duty insulated gloves.

OTHER PROTECTION

Face shield.

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SECTION #9 - SPECIAL PRECAUTIONS - STORAGE & HANDLING

STORAGE & HANDLING CONDITIONS

Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits. If material is released or spilled, evacuate area. Avoid excessive inhalation and skin contact.

Never carry a compressed gas cylinder or a container of a gas in cryogenic liquid form in an enclosed space such as a car trunk, van or station wagon. A leak can result in a fire, explosion, asphyxiation or a toxic exposure.

SECTION #10 - SHIPPING INFORMATION

Proper Shipping Name: Propylene

Hazard Class: Flammable Gas

DOT Identification Number: UN1075

DOT Shipping Label: Extremely Flammable Gas

SECTION #11 - MISC COMMENTS & REFERENCE DOCUMENTATION

Follow methods advocated for the safe handling and storage of flammable or combustible gases. Store in cool, well-ventilated area, away from heat and ignition sources.

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