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MATERIAL SAFETY DATA SHEET

EXXON CHEMICAL AMERICAS, P. O. BOX 2724, HOUSTON, TEXAS 77001
 A DIVISION OF EXXON CHEMICAL COMPANY, A DIVISION OF EXXON CORPORATION

PROPYLENE

PAGE: 1
 DATE PREPARED: NOV 3, 1992
 MSDS NO.: 94605000

SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: Propylene

CHEMICAL NAME:
 Propene.

CAS 115-07-1

CHEMICAL FAMILY:
 Alkenes.

PRODUCT DESCRIPTION:
 Colorless liquid or gas.

EMERGENCY TELEPHONE NUMBERS: EXXON CHEMICAL AMERICAS 800-726-2015
 CHEMTREC 800-424-9300

SECTION 2 HAZARDOUS INGREDIENT INFORMATION

This product is hazardous as defined in 29 CFR 1910.1200.

OSHA HAZARD
 Flammable
 OSHA PEL

For additional information see Section 3.

SECTION 3 HEALTH INFORMATION & PROTECTION

NATURE OF HAZARD

EYE CONTACT:

Exposure to rapidly expanding gas or vaporizing liquids may cause frostbite (cold burns) or tissue damage.

SKIN CONTACT:

Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold" burn).
 In case of frostbite, place affected area in warm water until circulation returns.

INHALATION:

High vapor concentrations are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects.
 Asphyxiant if allowed to accumulate in confined spaces to concentrations that reduce oxygen below safe breathing levels.

INGESTION:

No hazard in normal industrial use.

FIRST AID

EYE CONTACT:

First aid is normally not required.

SKIN CONTACT:

In case of cold burns caused by rapidly expanding gas or vaporizing liquid, get prompt medical attention.



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INHALATION:

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

INGESTION:

First aid is not applicable.

MAPP
GAS

WORKPLACE EXPOSURE LIMITS

OSHA REGULATION 29CFR1910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS:

a TWA of 1000 ppm (1800 mg/m3) for Propane

The recommended permissible exposure levels indicated above reflect the levels revised by OSHA in 1989 or in subsequent regulatory activity. Although the 1989 levels have since been vacated by the 11th Circuit Court of Appeals, Exxon Chemical recommends that the lower exposure levels be observed as reasonable worker protection.

THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES:

The ACGIH has no Threshold Limit Value for Propane, but considers it a simple asphyxiant.

EXXON RECOMMENDS THE FOLLOWING OCCUPATIONAL EXPOSURE LIMITS:

1000 ppm based on composition.
Exxon recommends an 8 hour TWA of 1000 ppm and a 15 minute short term exposure limit of 1500 ppm for Propane

PRECAUTIONS

PERSONAL PROTECTION:

Gloves and safety glasses should be worn. Where it is likely that frostbite hazards may occur from vaporizing liquid and expanding vapor, prevent contact with eyes and skin. Wear safety glasses with side shields, long sleeves and insulating gloves. Where concentrations in air may exceed the limits given in this Section and engineering, work practice or other means of exposure reduction are not adequate, NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation.

VENTILATION:

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be stored and handled in a lab hood. Provide mechanical ventilation of confined spaces. See respiratory protection recommendations. Use explosion-proof ventilation equipment.

SECTION 4 FIRE & EXPLOSION HAZARD

FLASHPOINT: -162 Deg F. METHOD: TCC NOTE: (Estimated; gas)
FLAMMABLE LIMITS: LEL: 2.0 UEL: 11.1
AUTOIGNITION TEMPERATURE: 856 Deg F.

GENERAL HAZARD:

Extremely Flammable, material will readily ignite at ambient temperatures.



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A. D. EXXON CHEMICAL AMERICAS, P. O. BOX 3172, HOUSTON, TEXAS 77001
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Flammable Gas, can readily form flammable mixtures at or above the flashpoint.
Static Discharge, material can accumulate static charges which can cause an incendiary electrical discharge.
Auto-refrigeration, drains can become plugged and valves may become inoperable because of the formation of ice due to expanding vapors or vaporizing liquids.

FIRE FIGHTING:

Use water spray to cool fire exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors.
Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam.
Remove compressed gas cylinders from fire area if possible.

HAZARDOUS COMBUSTION PRODUCTS:

No unusual

SECTION 5 SPILL CONTROL PROCEDURE

LAND SPILL:

Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 7) notify the National Response Center.
Allow to evaporate.
Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

WATER SPILL:

Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear.
Allow to evaporate from surface.
Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

SECTION 6 NOTES

NOTES:

1. This material may also be handled at ambient temperature at pressures of up to 689 kPa (100 psig). Storage transport temperature: For refrigerated storage, -60 Deg.C (-75 Deg.F)



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SECTION 7 REGULATORY INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):
DOT HAZARD CLASS: Flammable Gas
DOT IDENTIFICATION NUMBER: UN 1075
NAME: Petroleum gas, liquefied

FLASHPOINT: -162 Deg F. METHOD: TCC NOTE: (Estimated: gas)

TSCA:
This product is listed on the TSCA Inventory at CAS Registry Number 115-07-1

CERCLA:
If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). We recommend you contact local authorities to determine if there may be other local reporting requirements.

SARA TITLE III:
Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories: Delayed Health, Fine, Sudden Release of Pressure. This information may be subject to the provisions of the Community Right-to-Know Reporting Requirements (40 CFR 370) if threshold quantity criteria are met. This product contains the following Section 313 Reportable Ingredients:

COMPONENT	CAS NO.	MAXIMUM %
Propylene	115-07-1	99.0

SECTION 8 TYPICAL PHYSICAL & CHEMICAL PROPERTIES

SPECIFIC GRAVITY: 0.52 at 60	VAPOR PRESSURE, mmHg at °F: 473 at -71 1,673 at -20
SOLUBILITY IN WATER, WT. % AT °F: 0.02 at 100	VISCOSITY OF LIQUID, CST AT °F: 0 at 75
SP. GRAV. OF VAPOR, at 1 atm (Air=1): 1.46	FREEZING/MELTING POINT, °F: -301
EVAPORATION RATE, n-Bu Acetate=1: Not Available	BOILING POINT, °F: -54

SECTION 9 REACTIVITY DATA

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID INSTABILITY:
Air contamination - causes peroxide formation.

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:
Concentrated mineral acids, halogens, nitrogen dioxide, oxidizing agents, molten sulfur, halogenated compounds



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HAZARDOUS DECOMPOSITION PRODUCTS:

None

SECTION 10 STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD:

Yes, use proper grounding procedure

STORAGE TEMPERATURE, °F:

See Notes

STORAGE/TRANSPORT PRESSURE, mmHg:

See Notes

LOADING/UNLOADING TEMPERATURE, °F:

-76

VISC. AT LOADING/UNLOADING TEMP., cST:

0

REVISION SUMMARY:

Since AUGUST 26, 1992 this MSDS has been revised in Section(s):

7

REFERENCE NUMBER:

HDHA-L-10012

DATE PREPARED:

November 3, 1992

SUPERSEDES ISSUE DATE:

August 26, 1992

FOR ADDITIONAL PRODUCT INFORMATION, CONTACT YOUR TECHNICAL SALES REPRESENTATIVE
FOR ADDITIONAL HEALTH/SAFETY INFORMATION, CALL 713-870-6884

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