



MATERIAL SAFETY DATA SHEET

HEMTREC Phone No. (800) 424 - 9300

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Core Part No: 0916-0004Victor Equipment Company
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Fax: (940) 381 - 1222This MSDS is based on air/fuel or oxy/fuel process.
There may be other cautions for electric process.**Material Safety Data Sheet****SECTION I - MATERIAL IDENTIFICATION****Product Name:** Liquefied Petroleum Gas or Propane (0916-0004)**Product Use:** Heating Fuel**SECTION II - HAZARDOUS INGREDIENTS****OSHA Hazardous Components (29 CFR 1910.1200) EXPOSURE LIMITS: 8 HR. TWA**

	OSHA PEL	ACGIH TLV
Propane (CAS #74-98-6)	100 ppm	Not listed

SECTION III - HAZARDS IDENTIFICATIONS**EMERGENCY OVERVIEW:** Flammable gas. May cause flash fire or explosion. Contents under pressure. Harmful if inhaled.**POTENTIAL HEALTH EFFECTS:****INHALATION:** May cause headaches and dizziness. May cause asphyxiation in high concentrations. Prolonged inhalation may be harmful.**EYE CONTACT:** Direct contact with liquified gas can result in eye burns.**SKIN CONTACT:** No hazard in normal industrial use.**INGESTION:** Ingestion not likely, product is a gas at room temperature.**CHRONIC:** Unknown.**CARCINOGENICITY:** LISTED IN NTP? No IARC? No OSHA Regulated? No**SECTION IV - FIRST AID MEASURES**

INHALATION: Remove to fresh air. If not breathing, give artificial respiration and/or give oxygen by trained personnel. Seek medical attention.

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention if irritation persists.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: No emergency care anticipated.

SECTION V - FIRE FIGHTING MEASURES

Flashpoint (Method): -156°F (ND)

Flammable Limits: Lower: 2.3 Upper: 9.5

Autoignition Temperature: 874°F

GENERAL HAZARD: Flammable gas. Can readily form explosive mixtures at or above the flashpoint. Flashback along vapor trail possible.

FIRE FIGHTING INSTRUCTIONS: Evacuate area and fight fire from a safe distance. DO NOT extinguish a gas fire unless effective immediate shut-off of gas flow is possible. Explosive vapors could form. As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

EXTINGUISHING MEDIA: DO NOT EXTINGUISH. Use water to cool containers. Increase ventilation to prevent flammable air mixture.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, oxides of carbon.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources including internal combustion engines and power tools. Ventilate area. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Avoid breathing vapors. Avoid contact with eyes, skin, and clothing.

SECTION VII - HANDLING AND STORAGE

Use spark-proof tools and explosion proof equipment. Ground and bond containers when transferring material. Do not reuse this container. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly sealed and promptly returned to a drum reconditioner, or disposed of properly. Keep away from heat, sparks and flame. Store in a cool dry place.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Propane Fuel

PERSONAL PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

PROTECTIVE CLOTHING: Wear safety glasses with side shields (or goggles) and a face shield.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: 7600 mmHg @ 80°C	Vapor Density (Air=1): 1.5
Specific Gravity: 0.50	Evaporation Rate
Solubility in Water: Negligible	(n-Butyl Acetate=1): NA
pH: NA	Freezing Point: -306°F
Boiling Point: -44°F	
Appearance & Odor: Colorless gas with no odor. If odorized, will have rotten egg odor.	

SECTION X - STABILITY AND REACTIVITY

GENERAL: Stable

INCOMPATIBLE MATERIALS: Oxidizers

CONDITIONS TO AVOID: Heat, ignition sources.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION

No toxicity data determined.

SECTION XII - ECOLOGICAL INFORMATION

Not applicable.

SECTION XIII - DISPOSAL CONSIDERATIONS

Do not attempt to dispose waste or unused material. Return in container properly labeled, with valve protection cap in place to the supplier for proper disposal. Classification required before disposal. Material is classed as ignitable with a RCRA D001 hazardous waste number. Follow all federal, state and local requirements.

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Liquified Petroleum Gas, 2.1
HAZARD CLASS: Flammable gas (2.1)
IDENTIFICATION NUMBER: UN 1075
DOT Emergency Guide #: 22
Reportable Quantity (RQ): 2,000,000 pounds (Propane) in a single container.

SECTION XV - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act) All components are listed on the TSCA inventory.
Propane Fuel

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act):
2,000,000 pounds. We recommend you contact local authorities for other reporting requirements.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

311/312 Hazard Categories: Acute, Ignitable, Sudden Release of Pressure.

313 Reportable Ingredients: None

SECTION XVI - OTHER INFORMATION

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FOOTNOTES:

NA - Not Applicable NE - Data Not Established CS - Cancer Suspect Agent OX - Oxidizer ND - No Data Cor - Corrosive

CALC - Calculated EST - Estimated STEL - Short Term Exposure Limit TLV - Threshold Limit Value

PEL - Permissible Exposure Limit TWA - Time Weighted Average, 8 hours

THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE. NEITHER THE SELLER NOR PREPARER MAKES ANY WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE INFORMATION PRESENTED.