

# Propane Fuel

THERMADYNE

# VICTOR®

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## MATERIAL SAFETY DATA SHEET

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This MSDS is based on air/fuel or oxy/fuel process.  
There may be other cautions for electric process.

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Form Number: 0056-1297  
Core Part No: 0916-0004

### Material Safety Data Sheet

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## SECTION I - MATERIAL IDENTIFICATION

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**Product Name:** Liquified Petroleum Gas or Propane (0916-0004)

**Product Use:** Heating Fuel

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## SECTION II - HAZARDOUS INGREDIENTS

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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

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## SECTION III - HAZARDS IDENTIFICATIONS

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**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

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## SECTION IV - FIRST AID MEASURES

## Propane Fuel

- 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.

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### SECTION V - FIRE FIGHTING MEASURES

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**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.

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### SECTION VI - ACCIDENTAL RELEASE MEASURES

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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.

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### SECTION VII - HANDLING AND STORAGE

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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.

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### SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

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## Propane Fuel

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

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### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

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

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### SECTION X - STABILITY AND REACTIVITY

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- GENERAL:** Stable
- INCOMPATIBLE MATERIALS:** Oxidizers
- CONDITIONS TO AVOID:** Heat, ignition sources.
- HAZARDOUS POLYMERIZATION:** Will not occur.

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### SECTION XI - TOXICOLOGICAL INFORMATION

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No toxicity data determined.

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### SECTION XII - ECOLOGICAL INFORMATION

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Not applicable.

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### SECTION XIII - DISPOSAL CONSIDERATIONS

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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.

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### SECTION XIV - TRANSPORTATION INFORMATION

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- PROPER SHIPPING NAME:** Liquefied Petroleum Gas, 2.1
- HAZARD CLASS:** Flammable gas (2.1)

## Propane Fuel

**IDENTIFICATION NUMBER:** UN 1978  
**DOT Emergency Guide #:** 22  
**Reportable Quantity (RQ):** 2,000,000 pounds (Propane) in a single container.

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### SECTION XV - REGULATORY INFORMATION

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

**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

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### SECTION XVI - OTHER INFORMATION

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**PREPARED BY:** TALEM, Inc. - Technical Services Division (817) 335 - 1186

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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

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