

**■ SIGNAL WORD: DANGER**      **H220** Extremely flammable gas.  
**H280** Contains gas under pressure; may explode if heated.

**SECTION 1: IDENTIFICATION**

<b>Product Name</b>	Propane
<b>CAS Number</b>	74-98-6
<b>Synonyms</b>	Dimethylmethane; Propyl Hydride; LPG; R-290; HC-290; Commercial Propane
<b>Product Use</b>	Fuel; refrigerant; industrial feedstock; propellant; solvent
<b>Supplier</b>	Cannagas Supply 97 Turnpike Rd, Westborough, MA 01581
<b>Phone</b>	877-710-1965
<b>Email</b>	Sales@canna-gas.com
<b>Emergency Phone</b>	CHEMTREC: 1-800-424-9300 (24-hour)
<b>SDS Revision Date</b>	March 2026

**SECTION 2: HAZARDS IDENTIFICATION**

<b>GHS Classification</b>	Flammable Gases – Category 1A Gases Under Pressure – Liquefied Gas Simple Asphyxiant
<b>Signal Word</b>	<b>DANGER</b>
<b>Hazard Statements</b>	H220: Extremely flammable gas. H280: Contains gas under pressure; may explode if heated. Simple asphyxiant at high concentrations.
<b>Precautionary – Prevention</b>	P210: Keep away from heat, sparks, open flames, hot surfaces. No smoking. P377: Leaking gas fire: Do not extinguish unless leak can be stopped safely. P381: In case of leakage, eliminate all ignition sources.
<b>Precautionary – Response</b>	P304+340: IF INHALED: Remove to fresh air. Keep at rest. P315: Seek immediate medical attention if high concentration exposure occurs. For cryogenic liquid contact: flush with lukewarm water. Seek medical attention.
<b>Precautionary – Storage</b>	P403: Store in a well-ventilated place. P410+P403: Protect from sunlight. Store in well-ventilated place.
<b>Precautionary – Disposal</b>	P501: Dispose of contents/container per local/regional/national regulations.
<b>HMIS® Ratings</b>	Health: 1   Flammability: 4   Physical Hazard: 1

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS Number	Concentration	EC Number
Propane	74-98-6	≥95% (v/v)	200-827-9

Commercial propane may contain minor amounts of propylene, ethane, butane, and odorant (ethyl mercaptan). Shipped as liquefied compressed gas. MW: 44.10 g/mol.

**SECTION 4: FIRST-AID MEASURES**

<b>Inhalation</b>	Remove to fresh air immediately. Keep warm at rest. Apply artificial respiration and oxygen if not breathing. Seek immediate medical attention. High concentrations act as simple asphyxiant.
<b>Skin Contact</b>	For cryogenic liquid contact: flush with lukewarm (not hot) water. Do NOT rub. Treat frostbitten tissue gently. Seek immediate medical attention.

<b>Eye Contact</b>	For cryogenic contact: flush with tepid water (105–115°F) for 15 minutes. Do NOT use hot water. Seek immediate medical attention.
<b>Ingestion</b>	Not a typical route of exposure for gases. Not applicable under normal conditions.
<b>Key Symptoms</b>	Simple asphyxiant — displaces oxygen at high concentrations causing dizziness, unconsciousness, death. Cryogenic liquid causes frostbite. Mild anesthetic effects at sub-asphyxiant concentrations.
<b>Medical Note</b>	Treat symptomatically. Inform medical personnel of substance involved.

### SECTION 5: FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Dry chemical, CO <sub>2</sub> , water spray or fog. Class B extinguishing agents.
<b>Unsuitable Extinguishing Media</b>	Do not use direct water jet on liquid — this will spread the fire.
<b>Specific Hazards</b>	Extremely flammable gas. Vapors are heavier than air and may travel long distances to ignition sources. Cylinders may explode when heated ("BLEVE"). Do NOT extinguish burning gas unless flow can be immediately stopped. Ruptured cylinders may rocket.
<b>Protective Equipment</b>	Self-contained breathing apparatus (SCBA) and full protective clothing required.
<b>Additional Guidance</b>	Do not extinguish leaking gas fire unless flow can be immediately stopped. Shut off gas and allow fire to burn out. Cool fire-exposed containers with water spray from maximum distance. Withdraw immediately if venting safety devices sound or tank discolors.
<b>Flash Point</b>	-156°F (-104°C) – Not applicable (gas)
<b>Auto-Ignition Temperature</b>	842–874°F (450–468°C)
<b>Flammable Limits (LEL/UEL)</b>	2.1% / 9.5% in air

### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Keep unnecessary personnel away. Eliminate all ignition sources. Wear appropriate PPE. Ventilate enclosed spaces before entry. Stay upwind.
<b>Environmental Precautions</b>	Avoid discharge into drains, waterways, or onto the ground. Notify authorities if spill cannot be contained.
<b>Small Spills</b>	Stop flow if possible. Ventilate area. Remove ignition sources.
<b>Large Spills</b>	Evacuate area. Stop flow if possible. Contact emergency services. Ventilate thoroughly. Remove all ignition sources.
<b>Important</b>	Never return spills to original containers. Use non-sparking tools. Take precautions against static discharge.

### SECTION 7: HANDLING AND STORAGE

<b>Safe Handling</b>	Use only in well-ventilated areas. Bond and ground equipment during transfer. Do not use open flame for leak detection — use combustible gas detector. Follow OSHA 29 CFR 1910.110 for LP-gas storage and handling.
<b>Safe Storage</b>	Store cylinders upright outdoors or in approved, ventilated storage. Protect from sunlight and heat sources. Max storage temperature: 120°F (49°C). Comply with NFPA 58 and applicable local regulations.
<b>Incompatibles</b>	Strong oxidizing agents, chlorine, chlorine dioxide, strong acids, alkalies. Ethyl mercaptan (odorant) may react with oxidizers, iron oxide, or water under certain conditions.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Agency	Type	Value
OSHA	PEL TWA	1000 ppm / 1800 mg/m3 (as LPG)

ACGIH TLV	TWA	1000 ppm (as alkane C1–C4)
NIOSH	TWA	1000 ppm / 1800 mg/m3
NIOSH IDLH	10% LEL	2100 ppm

<b>Engineering Controls</b>	Explosion-proof general and local exhaust ventilation. Provide eyewash station and safety shower. Use gas detectors for flammable gases where appropriate.
<b>Eye/Face Protection</b>	Chemical splash goggles; face shield where splash or pressurized release risk exists.
<b>Hand Protection</b>	Cryogenic/insulated gloves when liquid contact is possible. Standard chemical-resistant gloves for gas handling.
<b>Body Protection</b>	Chemical-resistant clothing. Cryogenic-rated clothing where liquid contact with liquefied gases is possible.
<b>Respiratory Protection</b>	SCBA or positive-pressure air-supplied respirator required in confined spaces or oxygen-deficient atmospheres. Structural firefighting gear provides limited protection only.
<b>Hygiene</b>	Do not eat, drink, or smoke when handling. Wash hands thoroughly after use.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Colorless gas (liquefied under pressure)	<b>LEL / UEL</b>	2.1% / 9.5%
<b>Odor</b>	Naturally odorless; odorant added for distribution	<b>Vapor Density</b>	1.56 (air = 1) — heavier than air
<b>Boiling Point</b>	-43.8°F (-42.1°C) at 1 atm	<b>Specific Gravity</b>	1.52 (liquid, air = 1)
<b>Freezing Point</b>	-305°F (-187°C)	<b>Solubility in Water</b>	Slight (0.1–1.0%)
<b>Flash Point</b>	-156°F (-104°C)	<b>Auto-ignition Temp.</b>	842°F (450°C)
<b>Vapor Pressure</b>	208 psig at 100°F (37.8°C)	<b>Molecular Formula</b>	C <sub>3</sub> H <sub>8</sub> / 44.10 g/mol
<b>Flammability</b>	Extremely flammable gas	<b>UN Number</b>	UN1978

### SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Conditions to Avoid</b>	Heat, open flames, sparks, sunlight, temperatures above 120°F (49°C), oxygen-enriched atmospheres.
<b>Incompatible Materials</b>	Strong oxidizing agents, chlorine, chlorine dioxide, strong acids, alkalis. Ethyl mercaptan (odorant) may react with oxidizers, iron oxide, or water under certain conditions.
<b>Hazardous Decomp. Products</b>	Carbon monoxide, carbon dioxide, and uncombusted hydrocarbons under fire conditions.

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Routes of Exposure</b>	Inhalation, skin contact, eye contact.
<b>Acute Toxicity</b>	Low acute toxicity by standard routes. High concentrations cause central nervous system depression and asphyxiation.
<b>Skin/Eye Effects</b>	Liquid/cryogenic contact causes frostbite. Vapor may cause mild irritation at high concentrations.
<b>Carcinogenicity</b>	Not listed as a carcinogen by IARC, NTP, or OSHA.
<b>Chronic Effects</b>	No significant chronic effects expected at normal industrial exposure levels.

**SECTION 12: ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	Not classified as environmentally hazardous under GHS criteria.
<b>Persistence/Degradability</b>	Expected to be readily biodegradable. Volatilizes rapidly from water surface.
<b>Bioaccumulative Potential</b>	Low bioaccumulation potential.
<b>Mobility in Soil</b>	Very high mobility — highly volatile, low soil adsorption.
<b>Other Adverse Effects</b>	Displaces oxygen in confined spaces. No significant ozone depletion potential.

**SECTION 13: DISPOSAL CONSIDERATIONS**

<b>Disposal Methods</b>	Return unused product in cylinders to supplier. Do not puncture, vent, or incinerate sealed cylinders. Comply with federal, state, and local regulations.
<b>Contaminated Packaging</b>	Empty containers may retain product residue. Follow label warnings even after emptying. Take to approved waste handling site.
<b>Waste Code</b>	Determine with user, producer, and licensed waste disposal company per 40 CFR 261.

**SECTION 14: TRANSPORT INFORMATION**

	<b>DOT (USA)</b>	<b>IATA (Air)</b>	<b>IMDG (Sea)</b>
UN Number	UN1978	UN1978	UN1978
Proper Ship. Name	Propane	Propane	PROPANE
Hazard Class	2.1	2.1	2.1
Packing Group	N/A (gas)	N/A (gas)	N/A (gas)
Marine Pollutant	No	N/A	No
ERG Code	115	115	F-D, S-U

**SECTION 15: REGULATORY INFORMATION**

<b>OSHA HazCom</b>	Classified as a Hazardous Chemical per 29 CFR 1910.1200.
<b>SARA 311/312</b>	Yes — Flammable gas; Compressed gas. Prop. 65: Combustion products of propane include listed substances.
<b>SARA 313 (TRI)</b>	Not regulated.
<b>TSCA</b>	Listed on TSCA Inventory (active).
<b>California Prop. 65</b>	Chemicals created by the combustion of propane are known to the State of California to cause cancer, birth defects, or other reproductive harm. See <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .
<b>State RTK</b>	Listed in applicable Massachusetts, New Jersey, Pennsylvania, and Rhode Island Right-to-Know substance lists.
<b>International</b>	Listed on TSCA (USA), AICS (Australia), DSL (Canada), NZIoC (New Zealand), PICCS (Philippines).

**SECTION 16: OTHER INFORMATION**

<b>Issue Date</b>	March 2026
<b>Revision Date</b>	March 2026
<b>Version</b>	1.0
<b>Prepared By</b>	Cannagas Supply

**Key Sources**

GHS Purple Book (Rev. 9); OSHA HazCom 2012; NFPA 58; NIOSH Pocket Guide; Valero SDS (Propane 309-GHS); AmeriGas SDS (2020); Hub City Propane SDS.

**H-Phrase Text**

H220: Extremely flammable gas. H280: Contains gas under pressure; may explode if heated. Simple asphyxiant.

**DISCLAIMER:** The information in this Safety Data Sheet is believed to be accurate and represents the best information currently available to Cannagas Supply. This SDS is provided in good faith without warranty of any kind. Users are responsible for determining the suitability of this product for their specific application and for compliance with all applicable laws and regulations. This document is not a specification sheet.