



Safety Data Sheet

Propane

AsteRisk

Your address, Your City, Your State, Zip

Phone :

Emergency Phone : phone

website

Section 1: Product and Company Identification

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Product Code: **Propane**

Part Number: 123

Synonyms:

Recommended Use:

Usage Restrictions:

Section 2: Hazards Identification



Hazard Classification:

Flammable (Category 1A), H220

Gases Under Pressure, H280

Simple Asphyxiant, OSHA-H01

Hazard Statements:

H220: EXTREMELY FLAMMABLE GAS.

H280: CONTAINS GAS UNDER PRESSURE; MAY EXPLODE WHEN HEATED.

CGA-HG01: MAY CAUSE FROSTBITE.

CGA-HG04: MAY FORM EXPLOSIVE MIXTURES WITH AIR.

OSHA-H01: MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

Precautionary Statements

P203: Obtain, read and follow all safety instructions before use.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P262: Do not get in eyes, on skin, or on clothing.

P271+P403: Use and store only outdoors or with adequate ventilation.

P280: Wear protective gloves, protective clothing, eye protection, and/or face protection.

P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P381: In case of leakage, eliminate all ignition sources.

CGA-PG02: Protect from sunlight when ambient temperature exceeds 52C (125F).

CGA-PG05: Use a back flow preventive device in the piping.

CGA-PG06: Close valve after each use and when empty.
CGA-PG10: Use only with equipment rated for cylinder pressure.
CGA-PG11: Never put cylinders into unventilated areas of passenger vehicles.
CGA-PG12: Do not open valve until connected to equipment prepared for use.
CGA-PG27: Read and follow the Safety Data Sheet (SDS) before use.

Section 3: Composition/Information on Ingredients

	CAS #	Concentration
Propane	74-98-6	100%

	Trade Names
Propane	PROPANE n-Propane Dimethylmethane 74-98-6 Propyl hydride propan

Section 4: First Aid Measures

IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media:

Use suitable extinguishing material for surrounding fire.

Protection of Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Products of Combustion

Oxides of carbon

Section 6: Accidental Release Measures

Personal Precautions:

Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.

Environmental Precautions:

Keep away from drains, surface and ground water. Avoid heat, flames, sparks and other sources of ignition.

Methods for Containment and Cleanup:

Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition. If necessary, cover drains. Absorb large spills, dispose in appropriate containers.

Section 7: Handling and Storage

Handling:

See precautions in Section 2. Only trained personnel should handle this product. Always use approved personal protective equipment.

Storage:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store and handle in accordance with all current regulations and standards. Store in a well-ventilated area. Keep separated from incompatible substances.

Incompatible Materials

Oxidizing Agents, Combustible Materials, Halo Carbons

Conditions to avoid

Avoid heat, flames, sparks and other sources of ignition.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines	Threshold Limit Value -TLV (ppm)
Propane	1000

Engineering Controls

Use only with adequate ventilation or in a closed system.

Eye Protection

Wear splash resistant safety goggles.

Skin Protection

Wear chemical protective clothing, including gloves.

Respiratory Protection

Use self-contained breathing apparatus.

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

	Physical State / Physical Form	Appearance / Color	Odor	Flash Point	Flammability	Partition Coefficient
Propane	Gas	Colorless	Gasoline	-157 F (-105 C)	Flammable.	2

	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits	Boiling Point	Freezing Point	Vapor Pressure
Propane	842 F (450 C)	9.5	1.7	-40 F (-40 C)	-310 F (-190 C)	124.91

	Vapor Density	Specific Gravity	Water Solubility	pH	Evaporation Rate	Viscosity
Propane	1.55	0.5853 @ -45 C	Slightly Soluble	0	Not applicable	Not Available.

	Molecular Weight	Molecular Formula	Density	Volatility	Solvent Solubility
Propane	44.097	C-H3-C-H2-C-H3	0.4985358	Not applicable	Soluble : Absolute alcohol, ether, chloroform, benzene, turpentine

Section 10: Stability and Reactivity

	Stability	Possibility of Hazardous Reactions
Propane	Stable at normal temperature and pressure	Will not polymerize.

Conditions to avoid

Avoid heat, flames, sparks and other sources of ignition.

Incompatible Materials

Oxidizing Agents, Combustible Materials, Halo Carbons

Hazardous Decomposition Products

Oxides of carbon

Section 11: Toxicology Information

The toxicology information is calculated for the mixture.

Acute Toxicity Estimates (ATE) of the mixture.

Oral ATE (mg/kg)	Not available
Inhalation ATE (ppm)	Not available
Dermal ATE (mg/kg)	Not available

Additional health hazards:

OSHA-H01: MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

Skin Corrosion/Irritation	Not available
Eye Damage/Irritation	Not available
Respiratory or Skin Sensitization	Not available
Germ Cell Mutagenicity	Not available
Carcinogenicity	Not available
Reproductive Toxicity	Not available
STOT – single exposure	Not available
STOT – repeated exposure	Not available
Aspiration Hazard	Not available

Section 12: Ecological Information

Fate and Transport

	Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Propane	Fish toxicity: 0	Not Available.	Not Available.	Not Available.

Section 13: Disposal Considerations

Dispose in accordance with all applicable regulations. Do not dispose in sewers or waterways. Recycle if possible to do so. Return to manufacturer for disposal if needed.

Section 14: Transportation Information

Individual Component Information

	Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Passenger Aircraft or Railcar Quantity Limitations		Cargo Aircraft Only Quantity Limitations		IMDG EmS
					DOT	IATA	DOT	IATA	
Propane	Propane	UN1978	2.1 	Not available	5 L	Forbidden	60 L	30 kg	F-D, S-U

Section 15: Regulatory Information

U.S. Regulations

	CERCLA Sections	RQ	TPQ
Propane	Not regulated	Not regulated	Not regulated

SARA 370.21

	Acute	Chronic	Fire	Reactive	Sudden Release
Propane	Yes	No	Yes	No	Yes

SARA 372.65

Propane	Not regulated
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OSHA Process Safety

Propane	Not regulated
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State Regulations

	CA Proposition 65
Propane	Not listed

Canadian Regulations

	WHMIS Classification
Propane	A, B1.

National Inventory Status

	US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDL)
Propane	Propane	Not listed	Listed on DSL

Section 16: Other Information

	NFPA Rating (Health, Fire, and Reactivity)
Propane	2, 4, 0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard