SECTION 1 — COMPANY IDENTIFICATION AND CHEMICAL PRODUCT

Manufacturer/Supplier: ..... Hub City Propane
370 W Deerfield Road, P.O. Box 431
Union City, IN 47390
Phone:.....765-691-0330
URL:.....HubCityPropane.com

Product Name: Propane
Common Names: Propane; Liquefied petroleum gas; LP gas; Dimethlymethane
Chemical Name: Dimethylmethane
Chemical Formula: C_3H_8
Chemical Family: Paraffin

SECTION 2 — HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER! Extremely flammable. Compressed gas. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen. Liquid can cause burns similar to frostbite. Caution: Ethyl mercaptan used as a warning agent may not be entirely effective in all situations. (see section 10) Use combustible gas indicator or similar device if you suspect a leak.

OSHA HAZARD CLASS: Based on OSHA definitions, the following ingredients in this product are hazardous. The OSHA physical and health hazard categories are shown below. **Note: Central Propane has not conducted specific toxicity tests on this product. Our hazard evaluation is based on information from similar ingredients, technical literature, and/or professional experience.** Propane — Flammable Gas, Compressed Gas, Asphyxiant

POTENTIAL HEALTH EFFECTS

Routes of Entry: Inhalation, Dermal.

Acute Effects of Overexposure:

Eyes — Liquid can cause burns similar to frostbite.

Skin — Liquid can cause burns similar to frostbite.

Inhalation — At very high concentrations can displace the normal air and cause suffocation from lack of oxygen. Symptoms of lack of oxygen include increase depth and frequency of breathing, dizziness, headache, nausea or loss of consciousness.

Ingestion — Liquid can cause burns similar to frostbite.

Chronic Effects of Overexposure: None determined

Conditions Aggravated by Exposure: People with pre-existing chronic respiratory diseases should avoid exposure to this material

Carcinogenicity: **NTP:** No **IARC:** No **OSHA:** No **Emergency and first aid procedures**

SECTION 3 — COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients	Percentages (by weight)	PEL (OSHA)	TLV (ACGIH)	CAS #
Propane	95-100%	1000 ppm TWA	2500 ppm TWA Simple Asphyxiant	74-98-6
Propylene	0-5%	N/D	Simple Asphyxiant	115-07-1

NOTE: Ethyl Mercaptan added as an odorant

(TWA) — Time weighted average is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week, which shall not be exceeded.
(STEL) — Short term exposure limit is the employee's 15-minute time weighted average exposure, which shall not be exceeded at any time during a work day unless another time limit is specified.

SECTION 4 — FIRST AID MEASURES

Eye Contact — If liquid propane contacts the eye, flush thoroughly with water for at least 15 minutes, occasionally lifting the upper and lower lids, until no evidence of chemical remains. Get medical attention as soon as possible.

Skin Contact — Frozen tissue should be flushed with plenty of tepid water. Do not use hot water. Cryogenic (low temperature) burns that result in blis-tering or deeper tissue freezing should be promptly treated by a physician.

Inhalation — Move person to fresh air. If large amounts has been inhaled, keep victim warm and get medical attention. Apply artificial respiration if not breathing.

SECTION 5 — FIRE-FIGHTING MEASURES

Flash point: -156°F **Auto ignition temp:** 874°F **Flammable limits in air % by volume:** **Lower** 2.1 **Upper** 9.5

Extinguishing media: Do not extinguish gas fire unless the gas flow can be stopped. Small fire use dry chemical and Carbon Dioxide (CO2).

Special fire fighting procedures: Gas fires should not be extinguished unless the gas flow can be stopped immediately.

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of loRwe va.r e0a1/s0, 9a/1n9d ventilate closed spaces before entering. Self-con-tained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide limited protection. Isolate for 1/2 mile in all directions if tank, rail car or tank truck is involved in fire. Call Professional Emergency Resource Services (PERS) at 1-800-728-2482 as soon as possible, especially if there is no local hazardous materials team available. Shut off gas at source and allow the fire to burn itself out. If the source cannot be shut off immediately, all equipment and surfaces exposed to the fire should be cooled with water to prevent over-heating, flash-backs, or explosions. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Unusual fire and explosion hazards: Vapors are heavier than air and may travel along the ground to a source of ignition (pilot light, heater, electric motor) some distance away. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tank due to fire.

Hazard ratings:				
	NFPA 704:	Health 2	Fire 4	Reactivity 0
	HMIS:	Health 2	Fire 4	Reactivity 0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Steps to take if material is release or spilled: REMOVE ALL SOURCES OF IGNITION. Notify emergency response personnel as appropriate. Keep unnecessary people away; isolate hazard area and deny entry. Vapors can be dispersed with sustained water spray. NOTE: Review Section 5 — FIRE-FIGHTING MEASURES before proceeding with clean up. Use appropriate personal protective equipment during emergency response.

SECTION 7 — HANDLING AND STORAGE

Handling and storing: Consult the U.S. Department of Transportation regulations on the shipping of petroleum gases. If upon initial receipt inspection a cylinder is found to be in poor condition, contact the supplier. The most common hazard is leakage due to faulty pressure control regulators. Large pressure build-up can result in explosive decompression at the cylinder head, causing the cylinder to rocket like a missile. Prevent entrapment of liquid in closed system. Use check valve to prevent back-flow into storage container. Chain cylinders when not in use. Cylinder storage should be segregated from oxidizers such as oxygen, chlorine, etc. and away from heavy traffic areas to prevent knocking over or damage of falling objects. Valve caps should remain on cylinders.

SECTION 8 — EXPOSURE CONTROL - PERSONAL PROTECTION

Engineering controls — Local exhaust and general ventilation may both be necessary in work area to prevent accumulation of explosive mixtures. Provide special ventilation in sumps and confined spaces. If mechanical ventilation is used, electrical equipment must meet National Electrical Code requirements.

Respiratory equipment — Personnel should never enter an area of high concentration without proper respiratory protection. Provide NIOSH-approved air-supplied respirator or self-contained breathing equipment for emergency or non-routine situations where the level is excessive.

Eye protection — Use face shield or chemical type goggles where contact with material may occur such as when changing valves, hoses, etc.

Protective clothing — Use protective clothing and/or gloves when contact with liquid propane is possible. OTHER (SAFETY SHOWERS, EYE WASH STATIONS, ETC.): Emergency eye wash fountains and safety showers for first aid treatment of potential freeze burns should be available in the vicinity of any significant exposure from compressed gas release.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless gas (liquid under pressure)
Boiling point: 760 mmHg @ -44°F
Vapor pressure: 190 psia @ 100°F
Soluble in water: Very slightly soluble
Odor: If odorized, will have rotten egg odor, otherwise odorless.

Evaporation rate (ether=1): N/A
Specific gravity (water=1): 0.5
Vapor density (air=1): 1.5
Signal Word: Danger

GHS Label Elements, Symbols:

SECTION 10 — STABILITY AND REACTIVITY

Stability: **Stable** X (At normal temperature and storage conditions) **Unstable** ____

Incompatibility: **Conditions to avoid:** Heat, sparks, flame, build-up of static electricity, and other sources of ignition. Note: Ethyl mercaptan might, under certain conditions (when oxygen, water, iron oxide or other oxidizers are present in containers or piping) react with oxidizers, which diminish or eliminate entirely its distinct smell, reducing the warning properties of the ethyl mercaptan.

Materials to avoid: Strong acids, alkalies and oxidizers such as chlorine (gas or liquid) and oxygen.

Hazardous decomposition products: Normal combustion produces carbon dioxide; incomplete combustion can produce carbon monoxide.

Hazardous polymerization: Has not been reported to occur.

SECTION 11 — TOXICOLOGY INFORMATION

Note: Central Propane has not conducted specific toxicity tests on this product.

SECTION 12 — ECOLOGICAL INFORMATION

Note: Central Propane has not conducted specific ecological tests on this product.

SECTION 13 — DISPOSAL CONSIDERATION

Waste disposal procedures: Releases are expected to cause only localized non-persistent environmental damage. Waste mixtures containing these gases should not be allowed to enter drains or sewers where there is danger of their vapors be ignited. When it becomes necessary to dispose of these gases, it is preferable to do so as a vapor. These gases may be used as an auxiliary fuel or disposed of by furring in a properly designed flare or incinerator. Venting of the gases to the atmosphere should be avoided. Treatment, storage, transportation and disposal must be in accordance with applicable federal, state and local regulations.

SECTION 14 — TRANSPORTATION

DOT proper shipping name: Propane
DOT identification number: UN 1075
DOT emergency response guide number: 115 (Formerly #22)

DOT hazard class: 2.1
DOT label, placard: Flammable Gas

SECTION 15 — REGULATORY INFORMATION

This product may contain the following toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Cas Number: 115-07-1 **Chemical Name:** Propylene **Percent By Weight:** 0 - 5%

SARA section 311-312 hazard categories (40 CFR 370.2): Fire: Yes **Sudden pressure release:** Yes **Reactive:** No **Acute:** Yes **Chronic:** No

SECTION 16 — OTHER INFORMATION

Issued by: Rick Collins, Gen Mgr of Operations
Reason/Date of Issue: Hub City Propane Duty To Warn/Safety
Date: November 2018

NFPA® Hazard Rating:
Health 2
Fire 4
Reactivity 0

The information contained in this SDS Relates only to the specific material identified. It does not cover use of that material in combination with any other material or in any particular process. In compliance with 29 C.F.R. 1910.1200(g), Central Propane has prepared this SDS in segments, with the intent that those segments be read together as a whole without textual omissions or alterations. Central Propane believes the information contained herein to be accurate, but makes no representation, guarantee, or warranty, express or implied, about the accuracy. reliability, or completeness of the information or about the fitness of contents herein for either general or particular purposes. Persons reviewing this SDS should make their own determination as to the material's suitability and completeness for use in their particular applications.