

Safety Data Sheet Propane

Section 1: Product and Company Identification

Purity Cylinder Gases,Inc.

2580 28th St SW Wyoming, MI 49519 P: (616)532-2375 www.puritygas.com

Product Code: Propane

Section 2: Hazards Identification



Hazard Classification:

Flammable (Category 1) Gases Under Pressure

Hazard Statements:

Contains gas under pressure; may explode if heated Extremely flammable gas

Precautionary Statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Response:

Eliminate all ignition sources if safe to do so. Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Storage:

Protect from sunlight. Store in well-ventilated place.

Section 3: Composition/Information on Ingredients



| Chemical Substance | Chemical Family | Trade Names |
|-----------------------|---------------------------------------|--|
| PROPANE | Hydrocarbons, Aliphatic, Saturated | N-PROPANE; DIMETHYLMETHANE; PROPYL HYDRIDE; R-290; PROPYLHYDRIDE; LIQUEFIED PETROLEUM GAS; LPG; >96% NATURAL GRADE; >99.9% PURE GRADE; UN 1978; C3H8 |

Section 4: First Aid Measures

| Skin Contact | Eye Contact | Ingestion | Inhalation | Note to Physicians |
|--|--|--|--|----------------------------------|
| If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115 F; 41-46 C). DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention. | Contact with liquid: Immediately flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention. | If a large amount is swallowed, get medical attention. | If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention. | For inhalation, consider oxygen. |

Section 5: Fire Fighting Measures

| Suitable Extinguishing Media | Products of Combustion | Protection of Firefighters |
|---|---|--|
| Regular dry chemical, high expansion foam Large fires: Flood with fine water spray. | Carbon monoxide, carbon dioxide, water and toxic and irritating fumes | Any self-contained breathing apparatus with a full facepiece. Any self-contained breathing apparatus with a full facepiece. |

Section 6: Accidental Release Measures

| Personal Precautions | Environmental Precautions | Methods for Containment |
|---|---|--|
| Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. Do not touch spilled material. | Avoid heat, flames, sparks and other sources of ignition. | Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition. |

| Methods for Cleanup | Other Information |
|-----------------------------|-------------------|
| Contact emergency personnel | None |

Section 7: Handling and Storage

| Handling | Storage |
|--|--------------------------|
| Store and handle in accordance with all current regulations and standards. Grounding and bonding required. | Keep separated from |
| Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. | incompatible substances. |

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

PROPANE: 1000 ppm (1800 mg/m3) OSHA TWA 1000 ppm (1800 mg/m3) NIOSH recommended TWA 10 hour(s) LIQUIFIED PETROLEUM GAS (LPG): 1000 ppm (1800 mg/m3) OSHA TWA 1000 ppm ACGIH TWA 1000 ppm (1800 mg/m3) NIOSH recommended TWA 10 hour(s) ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA

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Engineering Controls

Handle only in fully enclosed systems.

| Eye Protection | Skin Protection | Respiratory Protection |
|--|---|--------------------------|
| For the gas: Eye protection not required, but recommended. For the liquid: | For the gas: Protective clothing is not | Any self-contained |
| Wear splash resistant safety goggles. Contact lenses should not be worn. | required. For the liquid: Wear | breathing apparatus with |
| Provide an emergency eye wash fountain and quick drench shower in the | appropriate protective, cold insulating | a full facepiece. |
| immediate work area. | clothing. | |

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 | Appearance | Color | Change in Appearance | Physical Form | Odor | Taste |
|----------------|------------|-----------|----------------------|---------------|---------------|-------|
| Gas | Clear | Colorless | N/A | Gas | Gasoline odor | N/A |

| Flash Point | Flammability | Partition Coefficient | Autoignition Temperature | Upper Explosive Limits | Lower Explosive Limits |
|-----------------|---------------|-----------------------|--------------------------|------------------------|------------------------|
| -157 F (-105 C) | Not available | Not available | 842 F (450 C) | 0.095 | 0.021 |

| Boiling Point | Freezing Point | Vapor Pressure | Vapor Density | Specific Gravity | Water Solubility | рH | Odor Threshold | Evaporation Rate | Viscosity |
|-------------------|---------------------|--------------------------|------------------|---------------------|-----------------------------|----------------|--------------------|---------------------|------------------|
| -40 F (- 40 C) | -310 F (- 190 C) | 6398 mmHg @ 21.1 C | 1.55 (Air=1) | 0.5853 @ -45 C | Very slightly soluble | Not applicable | 5000- 20000 ppm | Not applicable | Not available |

| Molecular Weight | Molecular Formula | Density | Weight per Gallon | Volatility by Volume | Volatility | Solvent Solubility |
|---------------------|----------------------|---------|----------------------|----------------------|----------------|---|
| 44.11 | C-H3-C-H2-C- H3 | 0.116 | Not available | Not available | Not applicable | Soluble: Absolute alcohol, ether, chloroform, benzene, turpentine |

Section 10: Stability and Reactivity

| Stability | Conditions to Avoid | Incompatible Materials |
|-----------------------------------|-----------------------------------|---|
| Stable at normal temperatures and | Stable at normal temperatures and | Oxidizing materials, combustible materials, halogen |
| pressure. | pressure. | compounds, |

| Hazardous Decomposition Products | Possibility of Hazardous Reactions |
|----------------------------------|------------------------------------|
| Oxides of carbon | Will not polymerize. |

Section 11: Toxicology Information

Acute Effects

| 7 touto Eliooto | | |
|---|------------------|---|
| Oral LD50 | Dermal LD50 | Inhalation |
| LC50 Inhalation Gas. Rat >800000 ppm 15 minutes | Not available | Central nervous system depression, difficulty breathing, nausea, vomiting, irregular heartbeat, headache, symptoms of drunkenness, disorientation, suffocation, convulsions, coma |

| Eye Irritation Skin Irritation | | Sensitization |
|-----------------------------------|-----------------------------|-------------------------------|
| Liquid: frostbite, blurred vision | Liquid: blisters, frostbite | No health hazards classified. |

Chronic Effects

| Carcinogenicity | Mutagenicity | Reproductive Effects | Developmental Effects |
|-----------------|---------------|----------------------|-----------------------|
| Not available | Not available | Not available | No data |

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Section 12: Ecological Information

Fate and Transport

| Eco toxicity | Persistence / Degradability | Bioaccumulation / Accumulation | Mobility in Environment |
|--------------------------------------|-----------------------------|--------------------------------|-------------------------|
| Fish toxicity: Not available | Not available | Not available | Not available |
| Invertibrate toxicity: Not available | | | |
| Algal toxicity: Not available | | | |
| Phyto toxicity: Not available | | | |
| Other toxicity: Not available | | | |

Section 13: Disposal Considerations

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

| Proper Shipping Name | ID Number | Hazard Class or Division | Packing Group | Labeling Requirements | Passenger Aircraft or Railcar Quantity Limitations | Cargo Aircraft Only Quantity Limitations | Additional Shipping Description |
|----------------------------|--------------|--------------------------------|------------------|--------------------------|--|--|---------------------------------------|
| Propane | UN1978 | 2.1 | Not applicable | 2.1 | Forbidden | 150 kg | N/A |

Canadian Transportation of Dangerous Goods

| Shipping Name | UN Number | Class | Packing Group / Risk Group | |
|---------------|-----------|-------|----------------------------|--|
| Propane | UN1978 | 2.1 | Not applicable | |

Section 15: Regulatory Information

U.S. Regulations

| CERCLA Sections | SARA 355.30 | SARA 355.40 |
|-----------------|----------------|----------------|
| Not regulated. | Not regulated. | Not regulated. |

SARA 370.21

| Acute | Chronic | Fire | Reactive | Sudden Release |
|-------|---------|------|----------|----------------|
| Yes | No | Yes | No | Yes |

SARA 372.65

Not regulated.

OSHA Process Safety

Not regulated.

State Regulations

CA Proposition 65 Not regulated.

Canadian Regulations

WHMIS Classification A, B1.

National Inventory Status

US Inventory (TSCA) TSCA 12b Export Notification Canada Inventory (DSL/NDSL)

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Listed on inventory. Not listed. Listed on inventory.

Section 16: Other Information

NFPA Rating

HEALTH=2 FIRE=4 REACTIVITY=0

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

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