

## **Section 1: Product and Company Identification**

**Geer Gas** 

1360 McKinley Ave. Columbus, Ohio 43222 Phone: (614) 272-4337

Chemtrec: Customer #9201

1-800-424-9300

Product Code: Propylene Part Number: PYL100

## **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**

#### Prevention

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.

Date of Preparation: 05/02/2023 08:53:27

## **Section 3: Composition/Information on Ingredients**

**CAS #** 115-07-1

Chemical Substance	Chemical Family	Trade Names
PROPYLENE	Hydrocarbons, Aliphatic, Unsaturated	PROPENE; METHYLETHENE; METHYLETHYLENE; 1-PROPYLENE; 1-PROPENE; UN 1077; C3H6

## **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
Carbon dioxide, regular dry chemical Large fires: Flood with fine water spray.	Toxic, irritating gases	<ul> <li>Any self-contained breathing apparatus with a full facepiece.</li> </ul>
		<ul> <li>Any self-contained breathing apparatus with a full facepiece.</li> </ul>

## **Section 6: Accidental Release Measures**

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

Methods for Cleanup	Other Information
Evacuate area. Contact emergency personnel	None

## Section 7: Handling and Storage

Handling	Storage
Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.110. Protect from physical damage. Store in a cool, dry place. Store in a well-ventilated area. Store outside or in a detached building. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances. Avoid heat, flames, sparks and other sources of ignition.

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### **Section 8: Exposure Controls/Personal Protection**

Exposure Guidelines
PROPYLENE: 500 ppm ACGIH TWA

### **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	Faint gasoline-like odour	N/A

Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
-162 F (-108 C)	Not available	223.87 (log = 2.35) (estimated from water solubility)	851 F (455 C)	0.111	0.02

Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	рH	Odor Threshold	Evaporation Rate	Viscosity
-53 F (- 47 C)	-301 F (- 185 C)	7828 mmHg @ 21.1 C	1.5 (Air=1)	Not applicable	0.45	Not applicable	Not available	Not applicable	0.140 cP @ -40 C

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
42.08	C-H3-C-H-C-H2	1.7855 g/L	Not available	100%	Not applicable	Soluble: Alcohol, ether, acetic acid

### **Section 10: Stability and Reactivity**

Stability	Conditions to Avoid	Incompatible Materials
May polymerize. May react on contact with	May polymerize. May react on contact with	Oxidizing materials, halo carbons, halogens,
air, heat, light or water.	air, heat, light or water.	acids, water, nitrogen oxides

Hazardous Decomposition Products	Possibility of Hazardous Reactions
Miscellaneous decomposition products	May polymerize. Avoid contact with heat, light, air, water or incompatible materials. Polymerizes with evolution of heat.

## **Section 11: Toxicology Information**

#### **Acute Effects**

Oral LD50	Dermal LD50	Inhalation
Not available	Not available	Tearing, nausea, vomiting, symptoms of drunkenness, suffocation, convulsions, coma

Eye Irritation	Skin Irritation	Sensitization
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Date of Preparation: 05/02/2023 08:53:27

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

#### **Chronic Effects**

Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
IARC: Human Inadequate Evidence, Animal Inadequate Evidence, Group 3; ACGIH: A4 -Not Classifiable as a Human Carcinogen	Available.	Available.	No data

## Section 12: Ecological Information

**Fate and Transport** 

Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available Algal toxicity: Not available Other toxicity: Not available	Relatively non-persistent in the environment.  Moderately volatile from water.	0.40 (estimated from water solubility)	Leaches through the soil or the sediment at a slow rate.

## **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
Propylene	UN1077	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
Propylene	UN1077	2.1	Not applicable

# **Section 15: Regulatory Information**

**U.S. Regulations** 

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<b>CERCLA Sections</b>	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** PROPYLENE

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### **OSHA Process Safety**

Not regulated.

### **State Regulations**

CA Proposition 65

Not regulated.

### **Canadian Regulations**

WHMIS Classification

**National Inventory Status** 

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US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)	
Listed on inventory.	Not listed.	Listed on inventory.	

# **Section 16: Other Information**

NFPA Rating

HEALTH=2 FIRE=4 REACTIVITY=1

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

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