Safety Data Sheet

Propylene US Cylinder Gas Alsip, IL



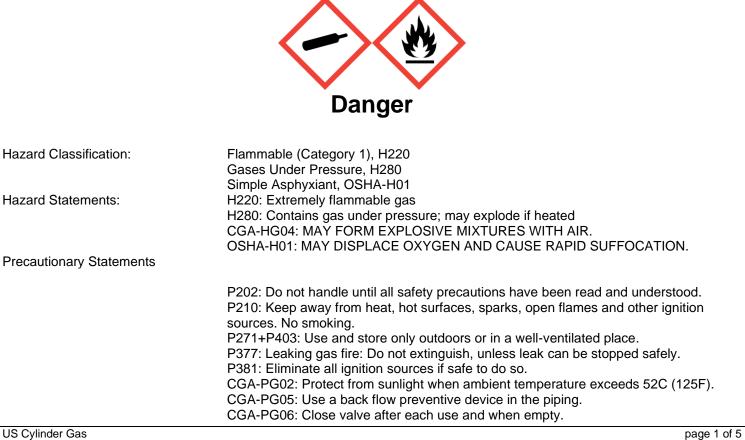
Section 1: Product and Company Identification

US Cylinder Gas Alsip, IL

Product Code: Propylene

Part Number: 115-07-1 Synonyms: C3H6, Propy Recommended Use: Industrial use. Use as directed. Usage Restrictions:

Section 2: Hazards Identification



CGA-PG10+CGA-PG20: Use only with equipment of compatible materials of construction and rated for cylinder pressure. 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 # 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	 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. Do not touch spilled material. Ventilate closed spaces before entering.	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
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.

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

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
Gas	Clear	Colorless	N/A	Gas	Faint gasoline-like odour
Taste	Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits
N/A	-162 F (-108 C)	Not available	223.87 (log = 2.35) (estimated from water solubility)	851 F (455 C)	0.111
Lower Explosive Limits	Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity
0.02	-53 F (-47 C)	-301 F (-185 C)	7828 mmHg @ 21.1 C	1.5 (Air=1)	Not applicable
Watan Calubility	[Oden Threehold	Even energien Dete	Viceosity	Malaavlan Mainht
Water Solubility	рН	Odor Threshold	Evaporation Rate	Viscosity	Molecular Weight
0.45	Not applicable	Not available	Not applicable	0.140 cP @ -40 C	42.08

Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
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 air, heat, light or water.	Avoid heat, flames, sparks and other sources of ignition. Minimize contact with material. Containers may rupture or explode if exposed to heat.	Oxidizing materials, halo carbons, halogens, 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
		didikenness, sunocation, 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
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	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.

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 O Quantity Limitations	nly Additional Shipping Description
Propylene	UN1077	2.1	Not applicable	2.1	Forbidden	150 kg	N/A
Canadia	an Trans	portation	of Danger	ous Goods			
Shipping N			UN Number		Class	Packing Gro	up / Risk Group
Propylene			UN1077		2.1	Not applicabl	е
Section	15: Regu	latory Info	ormation				
U.S. Reg							
CERCLA S			-	ARA 355.30		SARA 355.40	
Not regulate	ed.		N	lot regulated.		Not regulated.	
SARA 37	0.21						
Acute		Chroni	С	Fire	Reactiv	e	Sudden Release
Yes		No		Yes	No		Yes
SARA 37 PROPYLEN							
OSHA Pr	ocess Sa	fety					
		fety					
OSHA Pr Not regulate State Reg CA Propos	ed. gulations ition 65	fety					
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OSHA Pr Not regulate CA Propos Not regulate Canadiar WHMIS Cla A, B1. National	ed. gulations ition 65 ed. N Regulati issification	ons					
OSHA Pr Not regulate State Reg CA Propos Not regulate Canadiar WHMIS Cla A, B1.	ed. gulations ition 65 ed. N Regulati issification	ons	TSC	CA 12b Export Notif	fication	canada Inventory (D	SL/NDSL)

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