SAFETY DATA SHEET Propylene

1. PRODUCT AND COMPANY IDENTIFICATION				
Product Code:	00002			
Product Name:	Propylene			
Company Name:	Gas Innovations 18005 E. Hwy 225 La Porte, TX 77571	Phone Number: +1 (281)471-2200		
Web site address:	www.gasinnovations.com			
Emergency Contact: Information:	3E (within United States) Infotrac (outside of United States)	+1 (866)303-2640 +1 (352)323-3500		

2. HAZARDS IDENTIFICATION

Flammable Gases, Category 1 Gas Under Pressure, Compressed gas



GHS Signal Word:	Danger		
GHS Hazard Phrases:	H220 - Extremely flammable gas.		
	H280 - Containers gas under pressure; may explode if heated.		
GHS Precaution Phrases:	P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking.		
GHS Response Phrases:	P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381 - Eliminate all ignition sources if safe to do so.		
GHS Storage and Disposal Phrases:	P410+403 - Protect from sunlight and store in well-ventilated place.		
Hazard Rating System:	Flammability Health NFPA: Special Hazard		
Potential Health Effects (Acute and Chronic):	Propylene is nontoxic but can act as a simple asphyxiant by displacing air. Symptoms of asphyxia include rapid respirations, dizziness and fatigue. Contact with the liquid phase or with the cold gas escaping from cylinder may cause frostbite.		
Inhalation:	May be harmful if inhaled. May cause respiratory irritation. This material can act as a simple asphyxiant by displacement of air.		
Skin Contact:	May cause skin irritation. May cause frostbite.		
Eye Contact:	May cause eye irritation.		
Ingestion:	May be harmful if swallowed.		
2.00			

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
115-07-1	Propylene	100 %

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	4. FIRST AID MEASURES		
Emergency and First Aid Procedures:	Consult a physician. Show this safety data sheet to the doctor in attendance.		
In Case of Inhalation:	If breathed in, move person into fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.		
In Case of Skin Contact:	Wash off with soap and plenty of water. If skin irritation occurs, get medical advice/attention.		
In Case of Eye Contact:	Immediately flush eyes with plenty of water for at I east 15 minutes. Hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.		
In Case of Ingestion:	Not expected to be a primary route of exposure.		
	5. FIRE FIGHTING MEASURES		
Flash Pt:	NA Method Used: Not Applicable		
Explosive Limits:	LEL: 2.0% (V) UEL: 11.1% (V		
Autoignition Pt:	480 C (896 F)		
Suitable Extinguishing Media	a:Stop the flow of gas. IF the flow cannot be stopped, let the fire burn out while cooling the cylinder and the surrounding areas using a water spray.		
Fire Fighting Instructions:	Personnel may have to wear approach-type protective suits and positive pressure self-contained breathing apparatus. Firefighters' turnout gear may be inadequate. Cylinders exposed to fire may rupture with violent force. Extinguishing surrounding fire and keep cylinders cool by applying water from a maximum possible distance with a water spray. Flammable gases may spread from a spill after the fire is extinguished and be subject to re-ignition.		
Flammable Properties and Hazards:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.		
	6. ACCIDENTAL RELEASE MEASURES		
Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.		
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.		
Steps To Be Taken In Case Material Is Released Or Spilled:	Forms explosive mixtures with air. Immediately evacuate all personnel from danger area. Use self-contained breathing apparatus where needed. Remove all sources of ignition if safe to do so. Reduce vapors with fog or fine water spray, taking care not to spread liquid with water. Shut off flow if safe to do so. Ventilate area or move container to a well-ventilated area. Flammable vapors may spread from leak and could explode if reignited by sparks or flames. Explosive atmospheres may linger. Before entering area, especially confined areas, check atmosphere with an appropriate device. For controlling larger flows, personnel may have to wear approach-type protective suits and self-contained breathing apparatus.		
	7. HANDLING AND STORAGE		
Precautions To Be Taken in Handling:	Avoid inhalation of vapor or mist. Keep away from heat, sparks and flame. Keep away from sources of ignition - No smoking. Use spark-proof tools and explosion proof equipment. Use in a closed system. Secure the cylinder to prevent it from falling or being knocked over. Install check valves or traps to prevent suckback to the cylinder. Ground all lines and equipment. Leak check the lines and equipment. Have an emergency plan		

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covering steps to be taken in the event of an accidental release.

	Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g., wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents.
Precautions To Be Taken in Storing:	Cylinders should be stored and used in dry, well-ventilated areas away from sources of heat or ignition. Store away from oxidizers.
Other Precautions:	When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

repair the leak. Never place a container where it may become part of an electrical circuit.

CAS #	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits	
115-07-1	Propylene		No data.	TLV: Simple asphyxiant ppm	No data.	
Respiratory Equipment (Specify Type):		If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.				
Eye Protection:		Wear safety glasses when handling cylinders; vapor-proof goggles and a face shield during cylinder change out or whenever contact with product is possible. Select eye protection in accordance with OSHA 29 CFR 1910.133.				
Protective G	loves:	Wear appropriate g	loves to prevent skin expos	sure.		
Other Protective Clothing:		Not required under normal use conditions.				
Engineering (Ventilation		Use explosion-proo	f ventilation equipment.			
Work/Hygier Practices:	nic/Maintenance	Avoid contact with s after handling the p	skin, eyes and clothing. Wa roduct.	sh hands before breaks a	nd immediately	

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9.	PHYSICAL AND CHEMICAL PROPERTIES
Physical States:	[X]Gas []Liquid []Solid
Appearance and Odor:	Appearance: colorless.
	Odor: Characteristic natural gas odor.
	Specific volume: 0.567 m3/kg, 9.06 ft3/lb @ 1 am, 21.1C.
	Solubility in Water: 22.05 cm3/100 ml @ 1 atm, 20C.
Freezing Point:	-185 C (-301 F)
Boiling Point:	-47.7 C (-53.9 F)
Decomposition Temperature	: NA
Autoignition Pt:	480 C (896 F)
Flash Pt:	NA Method Used: Not Applicable
Explosive Limits:	LEL: 2.0% (V) UEL: 11.1% (V
Specific Gravity (Water = 1):	NA
Density:	1.48 @ 1 atm at 20.0 C (68.0 F)
Bulk density:	NA
Vapor Pressure (vs. Air or mm Hg):	136.5 PSI at 21.1 C (70.0 F)
Vapor Density (vs. Air = 1):	NA
Evaporation Rate:	NA
Solubility in Water:	NA
Saturated Vapor	NA
Concentration:	
Viscosity:	NA
pH:	NA
Percent Volatile:	NA
VOC / Volume:	NA
Particle Size:	NA
Heat Value:	NA
Corrosion Rate:	NA
Molecular Formula & Weight	: C3H6 42.081
	10. STABILITY AND REACTIVITY
Reactivity:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Heat, flames and sparks. No smoking.
Incompatibility - Materials To Avoid:	Oxidizing materials.
Hazardous Decomposition O Byproducts:	r High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

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				Supe	ersedes Revision: 09/07/2007
		11. TOXICOLOGI	CAL INFORM	ATION	
oxicological In	formation:	Epidemiology: No informati Teratogenicity: No informat Reproductive Effects: No in Mutagenicity: No informatic Neurotoxicity: No informatic	ion available. formation availabl n available.	е.	
Carcinogenicity	:	Other Studies: CAS# 115-0 Acute toxicity, LC, Inhalatio NTP? No IARC Monog	n, Species: Rat, 8	6 g/m3, 4H. DSHA Regulated?	No
		12. ECOLOGICA			
General Ecolog	ical	Environmental: No informat Physical: No information av	ion available.		
Results of PBT	and vPvB	No data available.			
Persistence and Degradability:	1	No data available.			
Bioaccumulativ Mobility in Soil:		No data available. No data available.			
nobility in Soli.		13. DISPOSAL C			
Waste Disposal	Method:	Do not attempt to dispose of Dispose of contents/contain regulations.		•	
		14. TRANSPOR	T INFORMA	TION	
AND TRANSP DOT Proper DOT Hazard UN/NA Num	Shipping Na Class:	me: Propylene.	MABLE GAS		
		15. REGULATO	RY INFORM	ATION	
		ments and Reauthorization Ac	-		
	lazardous Con Propylene	nponents (Chemical Name)	S. 302 (EHS) No	S. 304 RQ No	S. 313 (TRI) Yes
CAS# H		nponents (Chemical Name)			65: No; CA TAC, Title 8: MI CMR, Part 5: No; NC
	lazardous Con Propylene	nponents (Chemical Name)			

IECSC: Yes; Japan ENCS: Yes - (2)-13; Korea ECL: Yes -

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KE-29388; Philippines ICCS: Yes; REACH: Yes - (R), (P)

16. OTHER INFORMATION

Revision Date:03/22/2015Additional Information AboutNo data available.This Product:The information, reCompany Policy orThe information, reDisclaimer:reference materialaccuracy or complany responsibility of

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