

MATERIAL SAFETY DATA SHEET

PROPYLENE

1. Chemical Product And Company Identification

Trade Name:	Propylene
Applications:	Fuel
Synonyms:	LPG, 1-Propylene
CAS Registry #:	115-07-1
Chemical Family:	Alkenes / Olefins

Company Identification: (INDIA)	Veritas House, 70 Mint Road, Fort, Mumbai - 400 001. INDIA
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2. Composition, Information on Ingredients

Components:	Propylene
CAS #	115-07-1
Typical Wt.% :	90-100

3. Hazards Identification

Appearance:	Clear
Physical State:	Flammable Liquid And Gas Under Pressure
Odor:	Natural Gas Odor

EMERGENCY OVERVIEW:

Flammable Liquid And Gas Under Pressure. Can Form Explosive Mixtures With Air. May Cause Frostbite. Can Cause Rapid Suffocation. May Cause Dizziness And Drowsiness. Self-Contained Breathing Apparatus May Be Required By Rescue Workers.

Potential Health Effects:	
Inhalation:	Asphyxiant. Effects Are Due To Lack Of Oxygen. Moderate Concentrations May Cause Headaches, Drowsiness, Dizziness, Excitation, Excess Salivation, Vomiting And Unconsciousness. Lack Of Oxygen Can Kill.
Eye Contact:	Liquid May Cause Frostbite
Skin Contact:	Liquid May Cause Frostbite.
Ingestion:	Not Expected, This Product Is A Gas

4. First Aid Measures

Inhalation:	If Inhaled, Remove To Fresh Air. Get Medical Attention If Breathing Becomes Difficult Or Respiratory Irritation Persists, Give Oxygen.
Eye Contact:	For Contact With The Liquid, Flush Immediately With Warm Water For At Least 15 Minutes. Seek Medical Attention
Skin Contact:	For Exposure To Liquid, Immediately Warm Frostbite Area With Warm Water. Remove Contaminated Clothing. Call A Physician
Ingestion:	Not Applicable

5. Fire Fighting Measures

Flash Point (°F):	-108 Deg Cel
Flammable Limits:	Lel – 2.1% Uel – 9.5%
Autoignition Temperature:	450 Deg Cel
Flammability Classification:	Flammable Gas
General Hazard:	Incomplete burning can produce carbon monoxide. Vapors are heavier than air and may travel considerable distance to source of ignition and flashback. Stay away from ends of storage tanks. Prevent runoff from fire control dilution from entering streams or drinking water supplies. Extremely flammable. Will vaporize violently if depressured. Flame contact with the storage vessel above the liquid level could result in a boiling liquid expanding vapor explosion (bleve).
Fire Fighting Instructions:	Stop flow of gas. For fires involving flammable gases, the best procedure is to stop the flow of gas before attempting extinguishment of the fire. To extinguish the fire, while allowing continued flow of gas, is extremely dangerous; an explosive cloud of gas/air mixture may be created that, if ignited, may cause far more damage than the original fire. Extinguishing the flame using carbon dioxide or dry chemical may be desirable to allow immediate access to valves to shut off the flow of gas, but this must be done carefully. In many cases, it will be preferable to allow continued burning, while protecting exposures with water spray, until the flow of gas can be stopped
Fire Fighting Equipment:	Use of SCBA in enclosed or confined spaces, or as other wise needed (bunker gear).
Hazardous Decomposition Products:	May produce carbon monoxide

6. Accidental Release Measures

Shut Off Ignition Sources; No Flames, Smoking Or Flares In Hazard Area. Do Not Touch Spilled Material; Stop Leaks If You Can Do It Without Risk. Use Water Spray To Reduce Vapors; Isolate Area Until Gas Has Disappeared. Report Spills To Appropriate Authorities. Dispose Of In Accordance With Federal, State And Local Regulations.

7. Handling and Storage

Handling / Storage:	Ground And Bond All Transfer And Storage Equipment. Must Be Handled And Stored Under Pressure To Maintain Liquid Form. Consult NFPA And OSHA For Safe Storage And Handling Requirements. Use Non-Sparking Tools And Equipment. Avoid Ignition Sources. Avoid Contact With Eyes, Skin Or Clothing. Avoid Breathing The Vapor.
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8. Exposure Controls, Respiratory & Personal Protection

Engineering Controls:	Provide Ventilation Sufficient To Prevent Exceeding Recommended Exposure Limit Or Build-Up Of Explosive Concentrations Of Vapor In Air. Use Explosion-Proof Equipment.
Personal Protection:	
Protective Clothing:	Full Face Shield And Chemical Goggles. Impervious Gloves, Boots, And Whole Body Protection.
Respirator:	Airborne Concentrations Should Be Kept To Lowest Levels Possible. If Vapor, Mist Or Dust Is Generated And

Occupational Exposure Limits :

Component:	Propylene
STEL:	1000 Ppm
Notation:	Asphyxiant
Skin= Absorption Through The Skin May Contribute To Overall Exposure	

9. Physical and Chemical Properties

Physical State:	Gas Or Liquid Under Pressure
Color:	Colorless
Density/Specific Gravity (G/ML):	0.51
Vapor Density (Air=1):	1.6
Vapor Pressure:	208 Psia
Boiling Point:	- 40 Deg Cel
Solubility In Water:	No
Viscosity:	Na
Ph:	Na
Freezing Point:	Na

10. Stability and Reactivity

General	This Product Is Stable Incompatible Materials And Conditions To Avoid: Strong Oxidizers, Alkalies, Nickel Carbonyl And Oxygen. Explodes At Elevated Temperatures 815 °f. Avoid Heat Sparks, Flame, Rapid Depressurization, Body Contact.
Hazardous Decomposition	Incomplete Burning Can Produce Carbon Monoxide.

11. Toxicological Information

Inhalation:	High Concentrations May Cause Asphyxiation By Displacement Of Oxygen.
Ingestion:	NA
Eye:	Contact With Liquid May Cause Frostbite
Skin:	Contact With Liquid May Cause Frostbite
Chronic:	No Data Available To Indicate The Product Or Its Components Present A Chronic Health Hazard

12. Disposal Information

Dispose of this product in accordance with local and/or national regulations. EPA hazard class: acute hazard/fire hazard/sudden release of pressure hazard

13. Transport Information

Dot (Department Of Transportation)	May Also Be Shipped As "Liquified Petroleum Gas"
Proper Shipping Name	Propylene
Hazard Class	2.1
Identification Number	UN 1077

14. Other Information

MSDS Creation Date:	July 25, 2015
Revision #1 Date	

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