SAFETY DATA SHEET

1. CHEMICAL IDENTITY
Chemical Name LIQUEFIED PETROLEUM GAS : Chemical Classification Hydrocarbon gases (mixture, mixture)
Synonyms LPG, Propane, Butane, Propylene, Purofax, Bottled Gas : Trade Name


Regulated Identification : Shipping Name : Petroleum Gasses Liquefied Hazchem Code 2 W E
 : Codes / Label : Flammable, class 2
 : Hazardous Waste I.D. No. 5

1 Propane 74-98-6 3 Propylene 115-07-1
2 Butane 106-97-8 4

2. PHYSICAL / CHEMICAL DATA
Boiling Pt. / Range -20 to -40 °C : Physical state Gas at 15 °C and 1 atm.
 : Vapour Pressure : Odour Colourless
Meeting / Freezing Pt -160 (appr) °C : @ 35 °C 3725 mm Hg at 20 °C
 : Solubility : Others Soluble in organic
 : (Air = 1) 1.5 - 1.8 : in water at 30 °C Flosta
 : Specific Gravity 0.51 - 0.58 : pH Not pertinent
 : (Water = 1) at - 50 °C :

3. FIRE / EXPLOSION HAZARD DATA
Flammability Yes : LEL 1.9 % : Flash Point °C Not available (OC)
TDG Flammability 2 : UEL 9.5 % : Flash Point °C 104.4 (propane), 60 (Butane) (CC)

Autoignition Temperature °C : 466.1 Propane, 405 Butane
Explosion sensitivity to impact : May explode.
Explosion sensitivity to static Electricity : May explode
Hazardous Combustion Products : Emits CO, CO₂
Hazardous Polymerization : Will not occur

Combustible Liquid Yes : Explosive material No : Corrosive Material Ne.
Flammable Material Yes : Oxidiser No : Others
Pyrophoric Material No : Organic peroxide No :

4. REACTIVITY DATA
Chemical Stability : Stable
Incompatibility : Strong oxidisers
with other material : Reactivity : No reaction with common materials but may react with oxidising materials.
Hazardous : Not available
Reaction Products :
5. HEALTH HAZARD DATA

Routes of entry: Inhalation, Skin

Effects of: Concentration in air greater than 10% causes dizziness in few minutes. 1% : Give the same:
Exposure/ symptoms in 10 mts. High concentration causes asphyxiation. Liquid on skin causes frostbite
Symptoms:

Emergency: If inhaled, remove the victim to fresh air area. Provide artificial resuscitation skin: Remove the
Treatment: wetted clothes and wash the affected area with plenty of water. Eyes: Flush with plenty of water

For 15 mins. Seek medical aid.

LD₅₀ (oral-rat) : Not listed mg/kg

Permissible Exposure Limit : STEL : Not listed ppm

TLV (ACGIH) : Not listed ppm

Odour Threshold : Not listed mg/m³

NFPA Hazard Signals:

Health : Flammability : Reactivity : Special

1 : 4 : 0

6. PREVENTIVE MEASURES

Personal: Avoid contact with liquid or gas

Protective: Provide hand gloves, safety goggles, gas mask, protective overclothing and shoes.

Equipment:

7. EMERGENCY / FIRST AID MEASURES

FIRE: Fire Extinguishing: CO₂ Dry chemical powder, water spray

Media:

Special Procedure: Keep the containers cool by spraying water if exposed to fire or heat

Unusual Hazards: otherwise containers will explode in fire

EXPOSURE: First Aid Measures: If inhaled, remove the victim to open air area and artificial resuscitation may be provided if required. If skin is affected with the liquid, remove the clothing and wash the affected area with plenty of water. Seek immediate medical aid.

Antidotes / Dosages: Not available

SPILLS: Steps To Be Taken: Shut off leaks if without risk warn everybody that air mixture is explosive.

Waste Disposal Method: Allow gas to burn under control.

8. ADDITIONAL INFORMATION / REFERENCES

Avoid contact with oxidisers. Olefinic impurities may lead to narcotic effect. The gas is a simple asphyxiant. A very dangerous hazard when exposed to heat or flame. If fire is big, keep surrounding areas cool by spraying water.
9. **MANUFACTURERS / SUPPLIERS DATA**

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<tr>
<th>NAME OF FIRM</th>
<th>Contact Person</th>
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<tbody>
<tr>
<td>MAILING ADDRESS</td>
<td>in Emergency</td>
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<td>TELEPHONE / TELEX NOS</td>
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<tr>
<td>TELEGRAPHIC ADDRESS</td>
<td>Local Bodies involved</td>
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<td>Standard Packing</td>
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9. **DISCLAIMER**

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