



# Material Safety Data Sheet

FM.PRO-35

## 1. Chemical Product and Company Identification

PRODUCT NAME : **LIQUID PETROLEUM GAS**  
TRADE NAME/SYNONYMS : **LPG**

COMPANY IDENTIFICATION :

**PT. BSG GASES**

**Jl. Cempaka, Desa Jatimulya**

**Tambun, Bekasi - Indonesia**

EMERGENCY PHONE : **+62 21 8812507 – 08**

## 2. Composition, Information on Ingredients

COMPONENT : **Propane, Butane, Propylene**

FORMULA : **C3H6-C3H6-C4H10**

## 3. Hazards Identification

EMERGENCY OVERVIEW : **Flammable gas..**

POTENTIAL HEALTH EFFECTS:

ROUTES OF ENTRY: **Inhalation, Skin**

ACUTE EFFECTS: **Concentration in air greater than 10 % causes dizziness in few minutes. 1 % conc. gives the same symptoms in 10 mts. High concentration causes asphyxiation. Liquid on skin causes frostbite.**

CHRONIC EFFECTS: **None**

## 4. First Aid Measures

INHALATION: **Immediately remove victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.**

EYE CONTACT: **Flush with plenty of water for atleast 10 minute**

SKIN CONTACT: **Remove contaminated clothing and wash affected skin with water**

INGESTION: **if conscious, have victim drink water or milk. Do not induced vomiting. Obtain medical attention immediately**

## 5. Fire Fighting Measures

FLASH POINT: **-162 F**

AUTOIGNITION TEMPERATURE: **466.1 deg.C**

FLAMMABLE LIMITS:

LOWER: **1.9%**

UPPER: **9.5%**

EXTINGUISHING MEDIA: **Water spray, DCP, CO2**

SPECIAL FIRE FIGHTING INSTRUCTION AND EQUIPMENT: **keep the containers cool by spraying water if exposed to fire or hear.**

HAZARDOUS COMBUSTION PRODUCTS: **None**

UNUSUAL FIRE AND EXPLOSION HAZARDS: **Otherwise containers will explode in fire.**

## 6. Accidental Release Measures

CLEAN UP PROCEDURES **Evacuate and ventilate area. Remove leaking cylinder to exhaust hood or safe outdoor area. Shut off source if possible and remove source of heat**  
SPECIALIZED EQUIPMENT: **None**

## 7. Handling And Storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE : **Keep in tightly closed cylinders in a cool, well ventilated area, away from heat, flame, sparks.**

## 8. Exposure Controls, Personal Protection

ENGINEERING CONTROLS: **Avoid contact with liquid or gas**

EYE / FACE PROTECTION: **Safety glasses.**

SKIN PROTECTION: **protective clothing and shoes**

RESPIRATORY PROTECTION: **In case of leakage, Use a self-contained breathing apparatus**

OTHER PROTECTIVE EQUIPMENT: **Safety shoes when handling cylinders.**

## 9. Physical And Chemical Properties

APPEARANCE: **Colorless**

ODOR: **Mercaptane added for odor**

PHYSICAL PRESSURE: **Gas at 15 C and 1 atm**

VAPOR PRESSURE: **DNA**

VAPOR DENSITY (AIR=1): **1.5**

BOILING POINT (C): **>-40**

SOLUBILITY IN WATER: **Floats**

SPECIFIC GRAVITY (H2O=1): **0.51-0.58**

EVAPORATION RATE: **Gas**

ODOR THRESHOLD: **N/Ap**

## 10. Stability and Reactivity

STABILITY: **Stable under normal storage conditions.**

CONDITIONS TO AVOID: **Storage in poorly ventilated areas. Storage near a heat source.**

MATERIALS TO AVOID: **Strong oxidizers, alkalies, Nickel Carbonyl and oxygen. Explodes at elevated temperatures 815 °F. Avoid heat sparks, flame, rapid depressurization, body contact**

HAZARDOUS POLYMERIZATION: **Will not occur.**

HAZARDOUS DECOMPOSITION: **Incomplete burning can produce carbon monoxide**

## 11. Toxicological Information

**Not available**

## 12. Ecological Information

**Not available**

## 13. Disposal Considerations

WASTE DISPOSAL METHOD: **Return cylinders to supplier with any valve outlet plugs or caps secured and valve protection cap in place.**

## 14. Transport Information

PROPER SHIPPING NAME: **LPG, Liquefied**

HAZARD CLASS: **2.1 (flammable gas)**

IDENTIFICATION NUMBER: **UN1075**

LABELING: **FLAMMABLE GAS**

SPECIAL PRECAUTIONS: **Cylinders should be transported in a secure upright position in a well ventilated truck.**

## 15. Other Information

OTHER PRECAUTIONS: **Protect containers from physical damage. Do not deface cylinders or labels. Cylinders should be refilled by PT. BSG GASES qualified producers of compressed gas.**