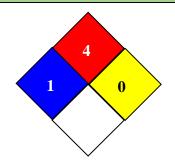


Jordan Petroleum Refinery Company LTD. Safety and Environment Department Material Safety Datasheet: Liquefied Petroleum Gas

NFPA Classification of Butane:

JPRC PR-01



Flammability	4
Health	1
Reactivity	0

Section 1: Product and Company Identification

Product Name : Liquefied Petroleum Gas

MSDS Number: JPRC PR-01

Company: Jordan Petroleum Refinery Company LTD.

Amman – Jordan.

TEL: +962 6 4630151 or 4657600 FAX: +962 6 4657934 or 4657939 P.O.BOX: 3396 Amman 11181 – Jordan P.O.BOX: 1079 Amman 11118 – Jordan Website: http://www.jopetrol.com.jo E-mail: addewan@jopetrol.com.jo

Section 2: Composition / Information on ingredients

Component	CAS Number	%
Propane	6-98-74	25-30
Butane	106-97-8	70-75
Ethyl Mercaptan	78-08-1	0-1
(Odorant)		

Section 3: Hazard Identification

Hazard statements : H220 - Extremely flammable gas.

H280 - Contains gas under pressure; may explode if heated.

Precautionary : P201 - Obtain special instructions before use.

statements P210 - Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P280 - Wear eye protection, face protection, protective clothing,

protective gloves.

P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped

safely.

P308+P313 - IF exposed or concerned: Get medical advice. P381 - In case of leakage, eliminate all ignition sources.

P403 - Store in a well-ventilated place.

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Section 4: First Aid Measures

Inhalation : Provide fresh air. Put victim at rest, cover with a blanket and keep warm. Keep

at rest. In case of shortness of breath, give oxygen. Get medical

advice/attention.

Skin contact : Cold burns, Treat frozen body-parts appropriately. In case of frostbite, wash

with plenty of warm water; do not remove clothing. Call a physician

immediately.

Eye contact : Cold burns: Immediately flush with tepid water or with sterile saline solution.

Hold eyelids apart for 15 minutes. Seek medical attention.

Most important symptoms and effects, both acute and delayed:

In high concentrations, may cause asphyxiation. Direct contact with the liquefied material or escaping compressed gas may cause frostbite injury.

Section 5: Firefighting Measures

Specific hazards : Evacuate personnel to a safe area. Heating causes rise in

pressure with risk of bursting. Use water spray or fog for cooling exposed containers. Vapors may form explosive mixture with air. Vapors are heavier than air and may spread along floors. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Do not allow run-off from fire-fighting to enter drains or water courses. Leaking gas fire: Do not

extinguish, unless leak can be stopped safely.

Suitable extinguishing media : Water spray, Alcohol resistant foam, Carbon dioxide, Dry

extinguishing powder.

Firefighting instructions : Special protective equipment for firefighters. . In case of fire:

Wear self-contained breathing apparatus. Use water spray or fog for cooling exposed containers. Evacuate personnel to a safe area. Collect contaminated fire extinguishing water

separately. This must not be discharged into drains.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Evacuate personnel to a safe area. Stay upwind/keep distance

For non-emergency personnel : from source. Avoid contact with skin and eyes. Do not

breathe vapor/aerosol. Use personal protective equipment as

required.

For emergency responders : Ensure procedures and training for emergency

decontamination and disposal are in place.

Environmental precautions : Do not allow to enter into surface water or drains.

Methods for cleaning up : Remove all sources of ignition. Use only explosion-proof

equipment. Do not smoke. Provide for sufficient ventilation,

particularly in closed rooms. Stop leak if safe to do so.

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Section 7: Handling and storage

Do not smoke. Do not breathe vapor/aerosol. Avoid contact with skin and eyes. Use only explosion proof equipment. Ensure equipment is adequately earthed. Do not burn, or use

Precautions for safe handling

a cutting torch on the empty drum. Do not pierce or burn, even after use. Do not spray on a naked flame or any

incandescent material.

Keep containers tightly closed in a dry, cool and wellventilated place. Keep only in the original container. Protect from sunlight. Keep away from heat, hot surfaces, sparks,

Conditions for safe storage

open flames and other ignition sources. No smoking. Do not store near or with any of the incompatible materials listed in

section 10.

Section 8: Exposure controls / Personal protection

USA - NIOSH - NIOSH REL (TWA) (mg/m3) - 1800 mg/m3

USA - NIOSH - NIOSH REL (TWA) (mg/m³) - 1000 ppm USA - OSHA - OSHA PEL (TWA) (mg/m3) - 1800 mg/m3 Occupational exposure limit

USA - OSHA - OSHA PEL (TWA) (mg/m3) - 1000 ppm

Appropriate engineering

controls

Use only in area provided with appropriate exhaust ventilation.

Ensure equipment is adequately earthed.

The type of protective equipment must be selected according to

Personal protective

equipment

the concentration and amount of the dangerous substance at the

specific workplace.

The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other

Hand protection chemicals that are possibly used, physical requirements

(protection against cutting/drilling, skill, thermal protection), and

the instructions/specification of the supplier of gloves.

Eye protection Safety glasses

Body protection Liquid. antistatic boots.

-In case of insufficient ventilation, wear suitable respiratory

equipment.

Respiratory protection -Use self-contained respiratory apparatus for rescue and

maintenance work in storage vessels.

Section 9: Physical and Chemical Properties

Physical state Press. Gas (Liquefied)

Color Colorless

Odor Characteristic (Mercaptan like)

Flash point -60 °C Lower and upper explosive Lower: 1.4% (flammable) limits Upper: 9.6% Water solubility Negligible

Density 0.550 g/cm3 (15 °C)

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Section 10: Stability and Reactivity

Chemical stability : Stable under normal conditions.

Reactivity : Hazardous polymerization does not occur.

Incompatible materials : Incompatible with oxidizing agents, acids, heat and ignition

sources. DO NOT use natural rubber flexible hoses. Also incompatible (potentially violently) with oxygen, halogens and

metal halides. Compatible with most common metals.

Conditions to avoid : Avoid heat, sparks, open flames and other ignition sources

Section 11: Toxicological information

Acute toxicity

No known toxicological effects form this product. Based on

available data, the classification criteria are not met.

Skin Not classified as a skin irritant. Contact with the liquefied

material or escaping compressed gas may cause frostbite injury.

Not classified as an irritant to the eyes. Contact with the

Eyes : liquefied material or escaping compressed gas may cause

frostbite injury.

Asphyxiant. Effects are proportional to oxygen displacement.

STOT – single exposure : Over exposure may result in dizziness, drowsiness, weakness,

fatigue, breathing difficulties and unconsciousness.

Section 12: Ecological information

Biodegradability : No data available

Mobility in Soil : Moderate to low mobility.

Ecotoxicity : No data available

Section 13: Disposal Considerations

Dispose of contaminated materials in accordance with current regulations. Do not burn, or use a cutting torch on the empty drum. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Section 14: Transport information

Transport of this product is carried out in compliance with local legislation, taking into account safety and environmental precautions.

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

- EU-Regulations
- Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.
- Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000

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Section 16: Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Prepared by : Safety and Environment Department

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