



SAFETY DATA SHEET

FUKKOL

FUKKOL MAPPRO GAS FAST HEAT | Propane/Butane LPG Fuel

Document No.: FK-MAPPRO-SDS-001 Revision: Rev. 01 Issue Date: 07 September 2026

Document status: Initial draft. For formal regulatory use, the actual formulation, packaging, pressure and applicable local requirements must be verified.

1. Identification of the Substance/Mixture and of the Company/Undertaking

Item	Information
Product name	FUKKOL MAPPRO GAS FAST HEAT
Other name	MAPPRO GAS / high-efficiency fuel for heating, brazing and cutting applications
Product type	Pressurized Liquefied Petroleum Gas (LPG) fuel / portable torch fuel
Recommended use	Portable torch heating, brazing, soldering, metal heating, pipe work and maintenance.
Brand	FUKKOL®
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2. Hazards Identification

GHS classification (draft/reference): Flammable gas; gas under pressure — liquefied gas.

Signal word: DANGER

Hazard statements: H220 — Extremely flammable gas. H280 — Contains gas under pressure; may explode if heated.

Precautionary statements: Keep away from heat, sparks, open flames and hot surfaces. No smoking. Protect from sunlight. Use only in a well-ventilated area.



3. Composition / Information on Ingredients

Component	CAS No.	Information
Propane	74-98-6	Typical flammable gas component
Butane	106-97-8	Typical flammable gas component
Mixture	—	Propane + butane LPG mixture; exact ratio not provided.
Concentration	—	Use the actual product formulation and batch COA/SDS. Do not infer exact percentages from this draft.

4. First-Aid Measures

- Inhalation: Move the affected person to fresh air. If breathing is difficult, consciousness is abnormal, or symptoms persist, seek medical attention immediately.
- Skin contact: Rapid evaporation of liquefied gas may cause frostbite. Warm the affected area slowly with lukewarm water. Do not rub the affected area and obtain medical attention.

- Eye contact: If liquid or cold gas contacts the eyes, rinse with plenty of water and obtain medical attention promptly.
- Main symptoms: High concentrations may displace oxygen and cause dizziness, drowsiness, reduced consciousness or asphyxiation. Contact with liquefied gas may cause cold burns/frostbite.

5. Fire-Fighting Measures

- Suitable extinguishing media: Dry chemical powder, carbon dioxide, foam or water fog.
- Specific hazards: Heating may increase container pressure and cause rupture. Leaked gas may form an explosive mixture with air.
- Firefighter protection: Use appropriate respiratory protection and full protective equipment. Cool heated containers with water fog from a safe distance.

6. Accidental Release Measures

- Personal precautions: Evacuate to a safe area, avoid inhalation, and eliminate smoking, flames, sparks and other ignition sources.
- Environmental precautions: Prevent large releases from entering drains, basements, pits or other low-lying enclosed spaces.
- Methods for containment/clean-up: If safe to do so, stop the leak at its source and maintain ventilation. Avoid creating an enclosed accumulation of gas.

7. Handling and Storage

- Handling: Inspect the container, valve, seals and torch connection before use. Maintain good ventilation.
- Prohibited actions: Do not puncture, crush, burn/incinerate or disassemble the container.
- Storage: Store in a cool, dry, well-ventilated area away from direct sunlight and heat sources. Avoid exposure to temperatures above 50°C.
- Keep containers upright and secure where practical; protect from impact and heavy loads. Keep away from oxidizing agents and ignition sources.

8. Exposure Controls / Personal Protection

- Engineering controls: Provide natural or mechanical ventilation sufficient to prevent accumulation of flammable gas.
- Eye protection: Safety glasses are recommended; use suitable face/eye protection for welding or cutting operations.
- Hand protection: Use suitable low-temperature/protective gloves when handling liquefied gas.
- Respiratory protection: Normally not required with adequate ventilation. If high concentrations may occur, follow occupational safety requirements and use suitable respiratory protection.
- Other protection: For hot welding/cutting operations, use flame-resistant work clothing and appropriate safety footwear.

9. Physical and Chemical Properties

Property	Typical / Reference Information
Appearance	Colourless liquefied gas; stored under pressure as a liquid/vapour equilibrium.
Main components	Propane + butane.
Boiling range	Approx. -42°C to -0.5°C, depending on blend ratio.
Flash point	Typically below -60°C; component/test-method dependent.
Auto-ignition temperature	Approx. 405-450°C; component-dependent.
Flammability range	Approx. 1.8-9.5 vol%, depending on composition.
Relative vapour density	Approx. 1.5-2.1 (air = 1).
Water solubility	Very low.
Flame temperature	Up to approx. 1,960°C with a suitable torch and appropriate operating conditions; this is application-dependent and is not a fixed gas-property specification.

10. Stability and Reactivity

- Reactivity: Stable under normal storage and use conditions.
- Conditions to avoid: High temperatures, sparks, open flames, static electricity, direct sunlight and overheating of the container.
- Incompatible materials: Strong oxidizing agents.
- Hazardous combustion products: Complete combustion mainly produces carbon dioxide and water; incomplete combustion may produce carbon monoxide.

11. Toxicological Information

- Inhalation: High concentrations may displace oxygen and cause dizziness, drowsiness, reduced consciousness or asphyxiation.
- Skin/eyes: Rapid evaporation of liquefied gas may cause frostbite/cold burns.

12. Ecological Information

- Environmental impact: Volatile hydrocarbon gases mainly disperse into the atmosphere and evaporate rapidly. Avoid large releases.

13. Disposal Considerations

- Container: Even an apparently empty container may contain flammable gas. Do not puncture or incinerate.
- Disposal method: Dispose of containers and residual material through qualified handlers in accordance with applicable hazardous-waste and pressurized-container requirements.

14. Transport Information

- Hazard class: Flammable gas / pressurized liquefied gas; actual classification depends on the package and transport mode.
- UN number: Must be confirmed from the actual container type and applicable transport regulations. Formal shipping documents must not be inferred solely from this draft.
- Transport precautions: Protect from heat, impact and leakage and comply with applicable dangerous-goods transport rules.

15. Regulatory Information

- GHS: Final classification, labeling and precautionary/hazard statements should be confirmed according to the actual propane/butane ratio and the applicable GHS implementation.
- Hong Kong: If sold, imported, stored or transported in Hong Kong, the responsible party should confirm applicable dangerous-goods, occupational-safety and transport requirements.
- Other markets: For export to other countries/regions, confirm requirements applicable in the destination market.

16. Other Information

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Responsible-use statement: This document is provided for preliminary safety information and product-management reference. The actual formulation, content, pressure, packaging, dangerous-goods classification and regulatory labeling must be confirmed against the manufacturer's latest technical data, SDS, COA and applicable authority requirements.

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