

SAFETY DATA SHEET

MAPP Pro Gas

Version 1.0

Revision Date: 18.10.2013



SAFETY DATA SHEET MAPP PRO GAS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1. Product Identifier

Product name: MAPP PRO GAS
REACH Registration Number:

If REACH registration numbers do not appear the substance is either exempt from registration, does not meet the minimum volume threshold for registration or the registration has not yet come due.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use: Hand torch fuel. Soldering gas
Advised Against: No identified use advised against.

1.3. Details of the supplier of the safety data sheet

Company name:

National Refrigerants Ltd.
4 Watling Close
Sketchley Meadows Business Park
Hinckley LE10 3EZ
Tel: +44(0)1455 630790
Fax: +44(0) 1455 630791
Email: sds@nationalref.com

1.4. Emergency telephone number

Emergency Tel: +44(0) 1865 407333

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance of mixture

Classification under CHIP: F+ Extremely Flammable
Most important adverse effect: High risk of fire and danger of explosion when accumulated in low-lying areas or enclosed spaces.
Danger of suffocation in low-lying areas and enclosed spaces.

2.2. Label elements

Regulation (EC) No. 1272/2008



Signal Word: Danger

Hazard Statements
H220: Extremely Flammable gas
H280: Contains gas under pressure; may explode if heated

Precautionary Statements:
Prevention
P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking
P260: Do not breathe dust/fume/gas/mist/vapour/spray.
P271: Use only outdoors or in a well-ventilated area.
Response
P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381: Eliminate all ignition sources if safe to do so.

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P304: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

Storage

P403+P233: Store in a well ventilated place. Keep container tightly closed.

P405: Store locked up.

Disposal

P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

Directives 67/458/EEC or
1999/45/EC:

Label elements under CHIP:



Risk phrases
Safety phrases

F+ Extremely flammable.

R12

S2, S3, S9, S16, S33, S29.

For full text of R and S-Phrases see Section 16.

2.3. Other hazards

May displace oxygen and cause rapid suffocation.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Hazardous Ingredients:

3.2 Mixtures

PROPENE (PROPYLENE)

EINECS	CAS	CHIP Classification	CLP Classification	Percent
204-062-1	115-07-1	F+ Extremely Flammable	H220, H280	75 – 100%

SOBUTANE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
200-857-2	75-28-51	F+ Extremely Flammable	H220, H280	10 – 25 %

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Skin contact: Take off all contaminated clothing immediately and wash with soap and water. Get medical attention if irritation develops and persists. If frostbite occurs immerse area in luke warm water Do not use hot water. Get medical assistance.

Eye contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Call a physician immediately...

Ingestion: This is not considered a potential route of exposure.

Inhalation: Remove from exposure, lie down. Move to fresh air. Keep patient warm and at rest. Artificial respiration and/or oxygen may be necessary. Call a physician or poison control centre immediately.

4. 2. Most important symptoms and effects, both acute and delayed

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Skin contact:	No data available.
Eye contact:	No data available
Ingestion:	Not a route of exposure.
Inhalation:	No data available
Delayed/immediate effects:	

4.3. Indication of any immediate medical attention and special treatment needed

Immediate/special treatment: Exposure may aggravate pre-existing respiratory disorders. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: CO₂, Dry chemical, Water spray, fog, or foam. Fight larger fires with water spray or alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

Special hazards arising from the mixture Can form explosive gas-air mixtures.
Pressure build-up in cylinders/tanks may cause them to explode.
Hazardous thermal decomposition products can be formed under certain fire conditions e.g.: carbon monoxide.

5.3. Advice for fire-fighters

Advice for fire-fighters: In the event of fire wear self-contained breathing apparatus.
Cool endangered cylinders with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Promptly evacuate personnel to safe areas. Eliminate all sources of ignition. No action shall be taken involving personal risk or without suitable training. Keep unnecessary personnel away.

6.2. Environmental precautions

Environmental precautions: Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater...

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Material evaporates. Eliminate all sources of ignition. Ventilate area well. Stop flow of gas or liquid if possible. Immediately contact emergency personnel.

6.4. Reference to other sections

Reference to other sections: Refer to Section 7 of SDS. Refer to Section 8 of SDS.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling requirements: Eliminate all sources of ignition. Avoid spark promoters. Electrically ground/bond container and equipment.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in accordance with local/regional/national/international regulations. Secure cylinders in an upright position at all times, close all valves when not in use. Store in a cool dry, well-

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ventilated place. Keep container tightly closed and sealed until ready for use. Protect cylinders from damage.

Suitable packaging: Store in original cylinder only.

7.3. Specific end use(s)

Specific end use(s) No data available.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Hazardous ingredients:
PROPYLENE (CAS 115-07-1)

8 hour TWA	15 min. STEL
500 ppm	

8.2. Exposure controls

Engineering measures: Use process enclosed, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. The engineering controls also need to keep gas, vapour, or dust concentrations below any lower explosive limits.

Respiratory protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits an approved respirator must be worn.

Hand protection: Wear appropriate chemical resistant gloves.

Eye protection: Wear approved safety glasses or goggles.

Skin protection: Wear protective clothing appropriate for the risk of exposure.

Environmental: Gas escapes to be kept to the minimum by engineering processes and operating methods.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

State: Liquefied gas under pressure.
Colour: Clear colourless liquid and vapour.
Odour: Hydrocarbon or mercaptan if odorized.
Boiling Point/range: -47.5°C
Flash Point: -107.8°C
Auto-ignition Temperature: 497°C
Lower explosive limit: 1.8 % v/v
Upper explosive limit: 11.1 % v/v
Vapour pressure: 9 Bar at 20°C
Vapour Density: 0.6 g/cm³ at 20°C
Water solubility: Slightly soluble
Vapour Density (Air = 1): 1.5 at 0°C

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

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Chemical stability: Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under recommended storage and transport conditions. Polymerization will not occur.

10.4. Conditions to avoid

Conditions to avoid: Heat, hot surfaces, flames and sparks...

10.5. Incompatible material

Materials to avoid: Strong oxidizing agents. Strong acids. Halogens...

10.6. Hazardous decomposition products

Hazardous decomposition products: No decomposition if used according to specifications.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute: Suffocation (asphyxiation) hazard – if allowed to accumulate to a concentration that reduces oxygen below safe breathing levels. Exposure of the skin and eyes to liquefied gas can cause freeze burns as it evaporates rapidly.

LC50/mouse/ 2 h : 680 mg/l

LC50/rat/ 4 h: 658 mg/l

Skin contact: No data available

Eye contact: No data available

Ingestion: Not a route of exposure

Inhalation: No data available

Delayed/immediate effects: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: IARC Monographs. Overall Evaluation of carcinogenicity
Propylene (CAS 115-07-1) 3 Not classified as to carcinogenicity to humans.

Reproductively: No data available

Specific target organ toxicity – single exposure: No data available

Specific target organ toxicity – Repeated exposure: No data available

Aspiration hazard: No data available

Chronic effects: May cause central nervous system effects.

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SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity to fish:	Not expected to be harmful to aquatic organisms.
Toxicity to Aquatic plants:	Not expected to be harmful to aquatic organisms.
Acute Toxicity to aquatic plants:	Not expected to be harmful to aquatic organisms.
Ecotoxic values:	Not expected to be harmful to aquatic organisms

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bio accumulative potential

Bio-accumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: No Data available.

12.6. Other adverse effects

Other adverse effects:

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal operations: Use the cylinder until empty. Do not dispose of any non-empty cylinders. Empty cylinders have residual vapour that is flammable and explosive.

Disposal of packaging: Cylinders should be emptied and returned to a hazardous waste collection point. Do not puncture even when empty.

N.B. The user's attention is drawn to the possible existence of regional or national regulations regarding disposal which must be followed

SECTION 14. TRANSPORT INFORMATION

ADR/RID

UN Number: UN1077
Proper shipping name: PROPYLENE
Class: 2
Classification Code: 2F
Packing group: None (Class 2)
Labels: 2.1
Transport category: 2
Tunnel code: (B/D)

IATA

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Un number: UN1077
Proper shipping name: PROPYLENE
Transport hazard class(es): 2.1
Subsidiary class(es): -
Packing group: None (class 2)
Labels required: 2.1
ERG Code: Not available
Special precautions for user: Not available

IMDG

UN number: UN1077
Proper shipping name: PROPYLENE
Transport hazard class(es): 2.1
Subsidiary class(es): -
Packing group: None (Class 2)
Labels required: 2.1
EmS: F-D, S-U
Special precautions for user: No data available.

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environment regulations/legislation specific for the substance or mixture

Special labelling of certain mixtures:

15.2. Chemical Safety Assessment

Chemical safety assessment: No data available.

16. OTHER INFORMATION

Other information: This safety sheet is prepared in accordance with Commission Regulation (EU) No. 453/2010.
* Indicates text in SDS which has changed since the last revision.

Risk Phrases: R12: Extremely flammable

Safety Phrases: S2: Keep out of the reach of children.
S3: Keep in a cool place.
S9: Keep container in a well ventilated place.
S16: Keep away from sources of ignition – No smoking.
S33: Take precautionary measures against static discharges.
S29: Do not empty into drains.

Special labelling of certain preparations: Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C
Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
Keep away from sources of ignition – No smoking.
Build-up of explosive mixtures possible without sufficient ventilation.
Keep out of reach of children.

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