# 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.

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:**

F+ Extremely flammable.

**Risk phrases** R12
**Safety phrases** 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

| | |
|---|---|
| **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:** $CO_2$, 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-

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$^{o}$C
**Flash Point:** -107.8$^{o}$C
**Auto-ignition Temperature:** 497$^{o}$C
**Lower explosive limit:** 1.8 % v/v
**Upper explosive limit:** 11.1 % v/v
**Vapour pressure:** 9 Bar at 20$^{o}$C
**Vapour Density:** 0.6 g/cm$^{3}$ at 20$^{o}$C
**Water solubility:** Slightly soluble
**Vapour Density (Air = 1)** 1.5 at 0$^{o}$C

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

**Reactivity:** No data available.

### 10.2. Chemical stability

| | |
|---|---|
| **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<br>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. |

## 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**

| | |
|---|---|
| **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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