



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** MAP-Pro™ Premium Hand Torch Fuel

### Other means of identification

**Product code** Varies

**SDS No.** WC001

### Recommended use of the chemical and restrictions on use

**Recommended use** Hand Torch Fuel

**Restrictions on use** Not available.

### Details of manufacturer or importer

#### Manufacturer

**Manufacturer/Supplier** Worthington Cylinder Corporation  
**Address** 300 E. Breed St., Chilton, WI 5301  
 United States

#### Contact person

**E-mail address** Ann.Stiefvater@worthingtonindustries.com

**Telephone number** 1-920-849-1740

**1.4. Emergency telephone number** 1-703-527-3887 International / CHEMTREC 1-800-424-9300 Domestic

## 2. Hazard(s) identification

### Classification of the hazardous chemical

|                              |                      |               |
|------------------------------|----------------------|---------------|
| <b>Physical hazards</b>      | Flammable gases      | Category 1    |
|                              | Gases under pressure | Liquefied gas |
| <b>Health hazards</b>        | Not classified.      |               |
| <b>Environmental hazards</b> | Not classified.      |               |

### Label elements, including precautionary statements

#### Hazard symbol(s)



Flame Gas cylinder

#### Signal word

Danger

#### Hazard Statement(s)

Extremely flammable gas. Contains gas under pressure; may explode if heated.

#### Precautionary Statement(s)

##### Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

##### Response

Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.

##### Storage

Protect from sunlight. Store in a well-ventilated place.

##### Disposal

Dispose of waste and residues in accordance with local authority requirements.

#### Other hazards which do not result in classification

May displace oxygen and cause rapid suffocation.

#### Supplemental information

None.

## 3. Composition/information on ingredients

### Substance

| Identity of chemical ingredients | CAS number and other unique identifiers | Concentration of ingredients |
|----------------------------------|---|------------------------------|
| Propylene                        | 115-07-1                                | 99.5 - 100                   |

#### Impurities

| Identity of chemical ingredients | CAS number and other unique identifiers | Concentration of ingredients |
|----------------------------------|---|------------------------------|
| Propane                          | 74-98-6                                 | 0 - 0.5                      |

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

### Description of necessary first aid measures

|   |   |
|---|---|
| <b>Inhalation</b>                                   | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or poison control centre immediately.  |
| <b>Skin contact</b>                                 | Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation develops and persists. If frostbite occurs, immerse involved area in warm water (between 38 °C/100 °F and 43 °C/110 °F, not exceeding 44 °C/112 °F). Keep immersed for 20 to 40 minutes. Seek medical assistance. |
| <b>Eye contact</b>                                  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.   |
| <b>Ingestion</b>                                    | Ingestion is not a typical route of exposure for gases or liquefied gases.  |
| <b>Personal protection for first-aid responders</b> | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.  |
| <b>Symptoms caused by exposure</b>                  | Exposure to rapidly expanding gas or vapourizing liquid may cause frostbite ("cold burn"). Very high exposure can cause suffocation from lack of oxygen. May cause drowsiness or dizziness.   |
| <b>Medical attention and special treatment</b>      | Exposure may aggravate pre-existing respiratory disorders. Treat symptomatically.   |

## 5. Fire-fighting measures

### Extinguishing media

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | Dry chemical, CO <sub>2</sub> , water spray, fog, or foam. |
| <b>Unsuitable extinguishing media</b> | Full water jet.  |

**Specific hazards arising from the chemical** Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

**Special protective equipment and precautions for fire fighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials.

**Fire fighting equipment/instructions** Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

Move container from fire area if it can be done without risk.

Do not extinguish fires unless gas flow can be stopped safely; explosive re-ignition may occur. Promptly isolate the scene by removing all persons from the vicinity of the incident. No action shall be taken involving any personal risk or without suitable training. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Stop flow of material. Use water to keep fire exposed containers cool and to protect personnel effecting shutoff. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop leak. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

**Hazchem Code** 2Y E

**General fire hazards** Extremely flammable gas.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Evacuate the area promptly. No action shall be taken involving any personal risk or without suitable training. Keep unnecessary personnel away.

Ensure adequate ventilation. In case of inadequate ventilation, use respiratory protection. Wear appropriate personal protective equipment (See Section 8).

#### For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

### 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, sanitary sewers, waterways and/or groundwater.

### Methods and materials for containment and cleaning up

Ventilate well, stop flow of gas or liquid if possible. Immediately contact emergency personnel. For waste disposal, see Section 13 of the SDS.

## 7. Handling and storage

### Precautions for safe handling

Eliminate all sources of ignition. Wear appropriate personal protective equipment (See Section 8). Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Do not get in eyes, on skin, on clothing. Use only with adequate ventilation.

### Conditions for safe storage, including any incompatibilities

Store in accordance with local, regional, national, and 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.

## 8. Exposure controls and personal protection

### Control parameters

Follow standard monitoring procedures.

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

| Components               | Type | Value   |
|--------------------------|------|---------|
| Propylene (CAS 115-07-1) | TWA  | 500 ppm |

#### Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

| Impurities            | Type | Value                              |
|-----------------------|------|------------------------------------|
| Propane (CAS 74-98-6) | TWA  | 1800 mg/m <sup>3</sup><br>1000 ppm |

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Exposure guidelines

Follow standard monitoring procedures.

### Appropriate engineering controls

Provide adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

### Individual protection measures, for example personal protective equipment (PPE)

#### Eye/face protection

Wear approved safety glasses or goggles.

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves.

##### Other

Wear protective clothing appropriate for the risk of exposure. Contact with liquefied gas might cause frostbites, in some cases with tissue damage. Wear appropriate thermal protective clothing, when necessary.

#### Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

#### Thermal hazards

Contact with liquefied gas might cause frostbites, in some cases with tissue damage. Wear appropriate thermal protective clothing, when necessary.

### Hygiene measures

Do not eat, drink or smoke when using the product. Wash thoroughly after handling. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practices.

## 9. Physical and chemical properties

### Appearance

Colorless liquefied gas.

|   |                                       |
|---|---------------------------------------|
| <b>Physical state</b>                               | Gas.                                  |
| <b>Form</b>   | Compressed liquefied gas.             |
| <b>Colour</b>                                       | Colourless.                           |
| <b>Odour</b>  | Hydrocarbon or mercaptan if odorized. |
| <b>Odour threshold</b>                              | Not available.                        |
| <b>pH</b>   | Not applicable.                       |
| <b>Melting point/freezing point</b>                 | -185 °C (-301 °F)                     |
| <b>Initial boiling point and boiling range</b>      | -48 °C (-54.4 °F) 101.325 kPa         |
| <b>Flash point</b>                                  | -107.8 °C (-162.0 °F)                 |
| <b>Evaporation rate</b>                             | Not applicable.                       |
| <b>Flammability (solid, gas)</b>                    | Extremely flammable gas.              |
| <b>Upper/lower flammability or explosive limits</b> |                                       |
| <b>Flammability limit - lower (%)</b>               | 2 %                                   |
| <b>Flammability limit - upper (%)</b>               | 11 %                                  |
| <b>Explosive limit - lower (%)</b>                  | Not available.                        |
| <b>Explosive limit – upper (%)</b>                  | Not available.                        |
| <b>Vapour pressure</b>                              | 109.73 PSIG (21°C)                    |
| <b>Vapour density</b>                               | 1.5 (0°C) (gas)                       |
| <b>Relative density</b>                             | 0.52 (liquid)                         |
| <b>Solubility(ies)</b>                              |                                       |
| <b>Solubility (water)</b>                           | 384 mg/l - Slightly soluble in water. |
| <b>Partition coefficient (n-octanol/water)</b>      | 1.77                                  |
| <b>Auto-ignition temperature</b>                    | 497.22 °C (927 °F)                    |
| <b>Decomposition temperature</b>                    | Not available.                        |
| <b>Viscosity</b>                                    | Not available.                        |
| <b>Other physical and chemical parameters</b>       |                                       |
| <b>Molecular weight</b>                             | 42 g/mol                              |
| <b>Percent volatile</b>                             | 100 %                                 |
| <b>VOC (Weight %)</b>                               | 100 %                                 |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is non-reactive under normal conditions of use, storage and transport.                                |
| <b>Chemical stability</b>                 | Stable under normal temperature conditions and recommended use.   |
| <b>Possibility of hazardous reactions</b> | Polymerization will not occur. May form explosive mixture with air. This product may react with oxidizing agents. |
| <b>Conditions to avoid</b>                | Heat, flames and sparks.  |
| <b>Incompatible materials</b>             | Strong oxidising agents. Strong acids. Halogens.  |
| <b>Hazardous decomposition products</b>   | Carbon oxides. Hydrocarbons.  |

## 11. Toxicological information

### Information on possible routes of exposure

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | High concentrations: Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels. Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of co-ordination. Continued inhalation may result in unconsciousness. |
| <b>Skin contact</b> | Contact with liquefied gas may cause frostbite.   |
| <b>Eye contact</b>  | Contact with liquefied gas may cause frostbite.   |

|   |  |
|---|--|
| <b>Ingestion</b>  | Not likely, due to the form of the product.  |
| <b>Symptoms related to exposure</b>                       | Exposure to rapidly expanding gas or vapourizing liquid may cause frostbite ("cold burn"). Very high exposure can cause suffocation from lack of oxygen. May cause drowsiness or dizziness.  |
| <b>Acute toxicity</b>                                     | High concentration: Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels. Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of co-ordination. Continued inhalation may result in unconsciousness. |
| <b>Skin corrosion/irritation</b>                          | Contact with liquefied gas might cause frostbites, in some cases with tissue damage.   |
| <b>Serious eye damage/irritation</b>                      | Direct contact with liquefied gas may cause eye damage from frostbite.   |
| <b>Respiratory or skin sensitisation</b>                  |  |
| <b>Respiratory sensitisation</b>                          | Not classified.  |
| <b>Skin sensitisation</b>                                 | Not classified.  |
| <b>Germ cell mutagenicity</b>                             | Not classified.  |
| <b>Carcinogenicity</b>                                    | Not classified.  |
| <b>Reproductive toxicity</b>                              | Not classified.  |
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.  |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.  |
| <b>Aspiration hazard</b>                                  | Not classified.  |
| <b>Chronic effects</b>                                    | May cause central nervous system effects.  |

## 12. Ecological information

|  |  |
|--|--|
| <b>Ecotoxicity</b>                                       | Not expected to be harmful to aquatic organisms. |
| <b>Persistence and degradability</b>                     | The product is readily biodegradable.            |
| <b>Bioaccumulative potential</b>                         | The product is not expected to bioaccumulate.    |
| <b>Partition coefficient n-octanol / water (log Kow)</b> |  |
| Propane (CAS 74-98-6)                                    | 2.36   |
| <b>Mobility in soil</b>                                  | May evaporate quickly.                           |
| <b>Mobility in general</b>                               | May evaporate quickly.                           |
| <b>Other adverse effects</b>                             | None known.                                      |

## 13. Disposal considerations

|                               |   |
|-------------------------------|---|
| <b>Disposal methods</b>       | Use the container until empty. Do not dispose of any non-empty container. Empty containers have residual vapor that is flammable and explosive. Cylinders should be emptied and returned to a hazardous waste collection point. Do not puncture or incinerate even when empty. Dispose in accordance with all applicable regulations. |
| <b>Residual waste</b>         | Dispose of in accordance with local regulations.  |
| <b>Contaminated packaging</b> | Since emptied containers may retain product residue, follow label warnings even after container is emptied.   |

## 14. Transport information

### ADG

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | 1077  |
| <b>UN proper shipping name</b>      | Propylene   |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 2.1   |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | Not applicable.   |
| <b>Environmental hazards</b>        | No  |
| <b>Hazchem Code</b>                 | 2YE   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. |

### RID

|                  |      |
|------------------|------|
| <b>UN number</b> | 1077 |
|------------------|------|

|                                     |   |
|-------------------------------------|---|
| <b>UN proper shipping name</b>      | Propylene   |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 2.1   |
| <b>Subsidiary risk</b>              | -   |
| <b>Label(s)</b>                     | 2.1   |
| <b>Packing group</b>                | Not applicable.   |
| <b>Environmental hazards</b>        | No.   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. |

#### IATA

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | 1077  |
| <b>UN proper shipping name</b>      | Propylene   |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 2.1   |
| <b>Subsidiary risk</b>              | -   |
| <b>Label(s)</b>                     | 2.1   |
| <b>Packing group</b>                | Not applicable.   |
| <b>Environmental hazards</b>        | No.   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. |

#### IMDG

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | 1077  |
| <b>UN proper shipping name</b>      | Propylene   |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 2.1   |
| <b>Subsidiary risk</b>              | -   |
| <b>Label(s)</b>                     | 2.1   |
| <b>Packing group</b>                | Not applicable.   |
| <b>Environmental hazards</b>        |   |
| <b>Marine pollutant</b>             | No.   |
| <b>EmS</b>                          | F-D, S-U  |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## 15. Regulatory information

### Safety, health and environmental regulations

**National regulations** This Safety Data Sheet was prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals.

#### Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Appendix C

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Appendix E

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Appendix F

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

#### Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix I**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix J**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix K**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 2**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 3**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 4**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 5**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 6**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 7**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 8**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 9**

Poisons schedule number not allocated.

**High Volume Industrial Chemicals (HVIC)**

Propane (CAS 74-98-6)

100000 - 999999 TONNES See the regulation for additional information.

**Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)**

Not listed.

**National Pollutant Inventory (NPI) substance reporting list**

Not listed.

**Prohibited Carcinogenic Substances**

Not regulated.

**Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)**

Not listed.

**Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)**

Not listed.

**Restricted Carcinogenic Substances**

Not regulated.

**International regulations**

**Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Kyoto protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Not applicable.

**International Inventories**

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)         | Yes                    |
| Canada               | Domestic Substances List (DSL)                             | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                        | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC) | Yes                    |

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                    |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

|                            |  |
|----------------------------|--|
| <b>Issue date</b>          | 25-November-2015   |
| <b>Revision date</b>       | -  |
| <b>Further information</b> | HMIS Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard.<br>Health: 1. Flammability: 4. Physical hazard: 1.   |
| <b>Disclaimer</b>          | All information in this Material Safety Data Sheet is believed to be accurate and reliable. However, no guarantee or warranty of any kind is made with regard to the accuracy of information or the suitability of the recommendations contained herein. It is the user's responsibility to assess the safety and toxicity of this product under their own conditions of use and to comply with all applicable laws and regulations. |