

SAFETY DATA SHEET

9/29/16

Map/pro premium

Torch Fuel Worthington pro Grade

1. Identification

Product identifier

MAP-Pro™ Premium Hand Torch Fuel

Other means of identification

SDS number

WC001

Product code

Varies

Recommended use

Hand Torch Fuel

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier

Worthington Cylinder Corporation 300 E. Breed St., Chilton, WI 5301

Address

United States Ann Stiefvater

Contact person E-mail address

Ann.Stiefvater@worthingtonindustries.com

Telephone number

Emergency telephone

1-920-849-1740

number

1-703-527-3887 International / CHEMTREC 1-800-424-9300 Domestic

2. Hazard(s) identification

Physical hazards

Flammable gases

Category 1

Gases under pressure

Compressed gas

Health hazards

Not classified.

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

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

Precautionary statement

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.

Hazard(s) not otherwise

classified (HNOC)

May displace oxygen and cause rapid suffocation.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Propylene		115-07-1	99.5 - 100
Impurities			
Chemical name		CAS number	%
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

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or poison control center immediately.

Skin contact

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 100 F/38 C and 110 F/43 C, not exceeding 112 F/44 C). Keep immersed for 20 to 40 minutes. Seek medical assistance.

Eye contact

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.

Ingestion

Ingestion is not a typical route of exposure for gases or liquefied gases.

Most important symptoms/effects, acute and

delayed

Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold burn"). Very high exposure can cause suffocation from lack of oxygen. May cause drowsiness or dizziness.

Indication of immediate medical attention and special treatment needed

Exposure may aggravate pre-existing respiratory disorders. Treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Dry chemical, CO2, water spray, fog, or foam.

None known.

Specific hazards arising from the chemical

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special protective equipment and precautions for firefighters

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

Fire-fighting equipment/instructions

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.

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

Extremely flammable gas.

For waste disposal, see Section 13 of the SDS.

6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

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). Ventilate well, stop flow of gas or liquid if possible. Immediately contact emergency personnel.

Methods and materials for containment and cleaning up **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.

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 breathe gas. 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/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Impurities	Type	Value	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	<u></u>
		1000 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
Propylene (CAS 115-07-1)	TWA	500 ppm	
US. NIOSH: Pocket Guide to Cher	mical Hazards		
Impurities	Туре	Value	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		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, such as personal protective equipment

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.

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.

General hygiene considerations

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.

Physical state

Form

Compressed liquefied gas.

Color

Colorless

Odor

рH

Hydrocarbon or mercaptan if odorized.

Odor threshold

Not available. Not applicable.

Melting point/freezing point

-301 °F (-185 °C)

Flash point

-162.0 °F (-107.8 °C)

Evaporation rate

Not applicable.

Flammability (solid, gas)

Extremely flammable gas.

Upper/lower flammability or explosive limits

Flammability limit - lower

2 %

(%)

Flammability limit - upper

11 %

(%)

Explosive limit - lower (%)

Explosive limit - upper (%)

Not available. Not available.

Vapor pressure

109.73 PSIG (21°C)

Vapor density

1.5 (0°C)

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909050 Version #: 02 Revision date: 28-April-2014 Issue date: 07-December-2012

Relative density

0.52 (liquid)

Solubility(ies)

Solubility (water)

Slightly soluble in water.

Partition coefficient

(n-octanol/water)

1.77

Auto-ignition temperature

927 °F (497.22 °C)

Decomposition temperature

Not available.

Viscosity

Not available.

Other information

VOC (Weight %)

100 %

10. Stability and reactivity

Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability

Stable under normal temperature conditions and recommended use.

Possibility of hazardous

reactions

Polymerization will not occur.

Conditions to avoid Incompatible materials Heat, flames and sparks. Strong oxidizing agents. Strong acids. Halogens.

Hazardous decomposition

products

Carbon oxides. Hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

Ingestion

Not likely, due to the form of the product.

Inhalation

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 coordination. Continued inhalation may result in unconsciousness.

Skin contact

Contact with liquefied gas may cause frostbite.

Eye contact

Contact with liquefied gas may cause frostbite.

Symptoms related to the physical, chemical and toxicological characteristics Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold burn"). Very high exposure can cause suffocation from lack of oxygen. May cause drowsiness or dizziness.

Information on toxicological effects

Acute toxicity

High concentration: Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations

that reduce oxygen below safe breathing levels.

Components

Species

Test Results

Propylene (CAS 115-07-1)

Acute

Inhalation

LC50

Mouse

680 mg/l, 2 Hours

Rat

658 mg/l, 4 Hours

Skin corrosion/irritation

Contact with liquefied gas might cause frostbites, in some cases with tissue damage:

Serious eye damage/eye

irritation

Direct contact with liquefied gas may cause eye damage from frostbite.

Respiratory or skin sensitization

Respiratory sensitization

Not classified.

Skin sensitization

Not classified.

Germ cell mutagenicity

Not classified.

Carcinogenicity

Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

Propylene (CAS 115-07-1)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

Not classified.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not classified.

Chronic effects

May cause central nervous system effects.

12. Ecological information

Ecotoxicity

Not expected to be harmful to aquatic organisms.

Persistence and degradability

The product is readily biodegradable.

Bioaccumulative potential

The product is not expected to bioaccumulate.

Partition coefficient n-octanol / water (log Kow)

Propylene (CAS 115-07-1)

1.77

Propane (CAS 74-98-6)

2.36

Mobility in soil

May evaporate quickly.

Mobility in general

May evaporate quickly.

Other adverse effects

None known.

13. Disposal considerations

Disposal instructions

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.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

D001: Waste Flammable material with a flash point <140 °F

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number

UN1077

UN proper shipping name

Propylene

Transport hazard class(es)

Class

2.1

Subsidiary risk

Packing group

Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions

19, T50

Packaging exceptions

306

Packaging non bulk

304

Packaging bulk

314, 315

IATA

UN number

UN1077

UN proper shipping name

Propylene

Transport hazard class(es) Class

2.1

Subsidiary risk

Label(s)

2.1

Packing group

Not applicable.

Environmental hazards

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number

UN1077

UN proper shipping name

Propylene

Transport hazard class(es) Class

MAP-Pro™ Premium Hand Torch Fuel

2.1

Subsidiary risk

Label(s)

Packing group

2.1

Environmental hazards

Marine pollutant

No.

EmS

F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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

Not applicable.

the IBC Code

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substance List (40 CFR 302.4)

Propane (CAS 74-98-6) Propylene (CAS 115-07-1)

LISTED

LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

SARA 313 (TRI reporting)

Chemical name	٠	
Propylene		

CAS number % by wt.

99.5 - 100 115-07-1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Propane (CAS 74-98-6) Propylene (CAS 115-07-1)

Clean Water Act (CWA)

Hazardous substance

Section 112(r) (40 CFR

68.130)

Safe Drinking Water Act

(SDWA)

Not regulated.

US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Propane (CAS 74-98-6) Propylene (CAS 115-07-1)

US. New Jersey Worker and Community Right-to-Know Act

Propane (CAS 74-98-6) Propylene (CAS 115-07-1)

US. Pennsylvania Worker and Community Right-to-Know Law

Propane (CAS 74-98-6) Propylene (CAS 115-07-1)

US. Rhode Island RTK

Propane (CAS 74-98-6) Propylene (CAS 115-07-1)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

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
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).

16. Other information, including date of preparation or last revision

Issue date

07-December-2012

Revision date

28-April-2014

Version #

02

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic

hazard.

Health: 1. Flammability: 4. Physical hazard: 1.

NFPA Ratings



Disclaimer

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.

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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).