

SAFETY DATA SHEET

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
Address	300 E. Breed St., Chilton, WI 5301
	United States
Contact person	Ann Stiefvater
E-mail address	Ann.Stiefvater@worthingtonindustries.com
Telephone number	1-920-849-1740
Emergency telephone 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	Liquefied gas
Health hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
	\wedge \wedge	



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.
Supplemental information	None.

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 percent by volume.
I. First-aid measures	
nhalation	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 (between 100°F/38°C and 110°F/43°C, not exceeding 112°F/44°C). Keep immersed for 20 to 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.
ngestion	Ingestion is not a typical route of exposure for gases or liquefied gases.
Most important symptoms/effects, acute and lelayed	Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold burn"). Very exposure can cause suffocation from lack of oxygen. May cause drowsiness or dizziness.
ndication of immediate nedical attention and special reatment 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	
uitable extinguishing media	Dry chemical, CO2, water spray, fog, or foam.
Insuitable extinguishing nedia	Full water jet.
Specific hazards arising from he chemical	Selection of respiratory protection for firefighting: follow the general fire precautions indicated the workplace.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
ire fighting	Move container from fire area if it can be done without risk.
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 be taken involving any personal risk or without suitable training. For fires involving this materia 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 r from fire control or dilution from entering streams, sewers or drinking water supply.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Extremely flammable gas.
6. Accidental release meas	sures
Personal precautions,	Evacuate the area promptly. No action shall be taken involving any personal risk or without

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.
<u>3</u> , p	Ensure adequate ventilation. In case of inadequate ventilation, use respiratory protection. Wear appropriate personal protective equipment (See Section 8).
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.
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)

PEL Values Type TWA o Chemical Hazards Type	1800 mg/m3 1000 ppm Value 500 ppm
Type TWA o Chemical Hazards	Value
Type TWA o Chemical Hazards	
TWA o Chemical Hazards	
o Chemical Hazards	500 ppm
Туре	
	Value
TWA	1800 mg/m3 1000 ppm
No biological exposure limits noted	for the ingredient(s).
Follow standard monitoring proced	ures.
Provide adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.	
Wear approved safety glasses or g	oggles.
Wear appropriate chemical resistar	nt gloves.
Wear protective clothing appropriat	e for the risk of exposure.
limits (where applicable) or to an ad	tain airborne concentrations below recommended exposure cceptable level (in countries where exposure limits have not spirator must be worn.
	use frostbites, in some cases with tissue damage. Wear ning, when necessary.
Do not eat, drink or smoke when us eyewash station and safety shower practices.	sing the product. Wash thoroughly after handling. Provide . Handle in accordance with good industrial hygiene and safety
properties	
Colorless liquefied gas.	
Gas.	
Compressed liquefied gas.	
Colorless.	
Hydrocarbon or mercaptan if odoriz	zed.
Not available.	
Not applicable.	
-301 °F (-185 °C)	
-54.4 °F (-48 °C) 101.325 kPa	
-162.0 °F (-107.8 °C)	
	engineering controls to control airb such as personal protective equip Wear approved safety glasses or g Wear appropriate chemical resistar Wear protective clothing appropriat If engineering controls do not main limits (where applicable) or to an ac been established), an approved res Contact with liquefied gas might ca appropriate thermal protective cloth Do not eat, drink or smoke when us eyewash station and safety shower practices. properties Colorless liquefied gas. Gas. Colorless. Hydrocarbon or mercaptan if odoriz Not available. Not applicable. -301 °F (-185 °C) -54.4 °F (-48 °C) 101.325 kPa

Evaporation rate	Not applicable.
Flammability (solid, gas)	Extremely flammable gas.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	2 %
Flammability limit - upper (%)	11 %
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	109.73 PSIG (21°C)
Vapor density	1.5 (0°C) (gas)
Relative density	0.52 (liquid)
Solubility(ies)	
Solubility (water)	384 mg/l - 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	
Molecular weight	42 g/mol
Percent volatile	100 %
VOC (Weight %)	100 % 100 % EPA estimated

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. May form explosive mixture with air. This product may react with oxidizing agents.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents. Strong acids. Halogens.
Hazardous decomposition products	Carbon oxides. Hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

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.
Ingestion	Not likely, due to the form of the product.
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		<i>(</i> , - · · ·
LC50	Mouse	680 mg/l, 2 Hours
	Rat	658 mg/l, 4 Hours
Skin corrosion/irritation	Contact with liquefied gas mi	ght cause frostbites, in some cases with tissue damage.
Serious eye damage/eye irritation	Direct contact with liquefied g	as may cause eye damage from frostbite.
Respiratory or skin sensitization	ı	
Respiratory sensitization	Not classified.	
Skin sensitization	Not classified.	
Germ cell mutagenicity	Not classified.	
Carcinogenicity	Not classified.	
Propylene (CAS 115-07- NTP Report on Carcinogens Not listed.	5	3 Not classifiable as to carcinogenicity to humans.
	d Substances (29 CFR 1910.1	1001-1050)
Not regulated. 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 s	ystem effects.
12. Ecological information	1	
Ecotoxicity	Not expected to be harmful to	o aquatic organisms.
Persistence and degradability	The product is readily biodeg	radable.
Bioaccumulative potential	The product is not expected t	o bioaccumulate.
Partition coefficient n-octan Propylene (CAS 115-07-1)	ol / water (log Kow)	1.77
Mobility in soil	May evaporate quickly.	
Mobility in general	May evaporate quickly.	
Other adverse effects	None known.	
13. Disposal consideration		
Disposal instructions	residual vapor that is flamma hazardous waste collection p accordance with all applicabl	-
Local disposal regulations	Dispose in accordance with a	
Hazardous waste code		terial with a flash point <140 °F
Waste from residues / unused products	Dispose of in accordance wit	h local regulations.
Contaminated packaging	Since emptied containers ma emptied.	y retain product residue, follow label warnings even after container is

14. Transport information

DOT	
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.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. 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)	Торуюнс
Class	2.1
	-
Subsidiary risk	- 2.1
Label(s)	
Packing group Environmental hazards	Not applicable. No.
Special precautions for use	 Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
IMDG	instructions, ODO and emergency procedures before handling.
UN number	UN1077
UN proper shipping name	Propylene
	Гюрунене
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	F-D, S-U
	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	1
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 I	Notification (40 CFR 707, Subpt. D)
Not regulated.	
OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1050)
Not regulated.	
CERCLA Hazardous Substa	nce List (40 CFR 302.4)
Propane (CAS 74-98-6)	LISTED
Propylene (CAS 115-07-1) LISTED
Superfund Amondments and Be	authorization Act of 1986 (SAPA)

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.

0404.040 (75)			
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.
Propylene		115-07-1	99.5 - 100
		115-07-1	99.5 - 100
ther federal regulations			
Clean Air Act (CAA) Section	on 112 Hazardous Air Po	liutants (HAPS) List	
Not regulated. Clean Air Act (CAA) Section	on 112(r) Accidental Rele	ease Prevention (40 CFR	68 130)
Propane (CAS 74-98-6) Propylene (CAS 115-07)		
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Hazardous substance		
Safe Drinking Water Act (SDWA)	Not regulated.		
S state regulations	This product does not defects or other repro-	contain a chemical known ductive harm.	n to the State of California to cause cancer, birth
US. Massachusetts R	FK - Substance List		
Propane (CAS 74-9			
Propylene (CAS 11	5-07-1) er and Community Right	to Know Act	
Propane (CAS 74-			
Propylene (CAS 11		····	
-	rker and Community Rig	ht-to-Know Law	
Propane (CAS 74-9 Propylene (CAS 11 US. Rhode Island RTK	5-07-1)		
Propane (CAS 74-9 Propylene (CAS 11	98-6)		
US. California Proposition Not Listed.	65		
ternational Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)
Australia	-	f Chemical Substances (A	
Canada	Domestic Substances	List (DSL)	Ye
Canada	Non-Domestic Substa	nces List (NDSL)	N
China	Inventory of Existing C	Chemical Substances in Ch	hina (IECSC) Ye
E uropo	European Inventory of Substances (EINECS)	Existing Commercial Che	emical Ye
Europe			
Europe		ed Chemical Substances	(ELINCS) N
	European List of Notif		
Europe	European List of Notif	ed Chemical Substances nd New Chemical Substa	
Europe Japan	European List of Notif Inventory of Existing a	ed Chemical Substances nd New Chemical Substan st (ECL)	nces (ENCS) Ye
Europe Japan Korea	European List of Notif Inventory of Existing a Existing Chemicals Lis New Zealand Inventor	ed Chemical Substances nd New Chemical Substan st (ECL)	nces (ENCS) Ye Ye Ye

*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, including date of preparation or last revision

Issue date	07-December-2012
Revision date	25-November-2015
Version #	03

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.
HMIS® ratings	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.