



## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**PRODUCT NAME:** MAP-PRO Premium Hand Torch Fuel  
**OTHER/GENERIC NAMES:** MAPP; MAPP-Gas  
**PRODUCT USE:** Brazing; Soldering;  
**EXIM TRADING LLC** 12601 NW 115<sup>TH</sup> Ave, Unit 111A, Medley, FL, 33178  
☎ (305) 884 7882 📠 (305) 884 7883

#### FOR EMERGENCY

Medical: 1-800-498-5701  
Transportation: Chemtrec 1-800-424-9300  
OUTSIDE UNITED STATES, CALL COLLECT 1-352-323-3500

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Weight %	OSHA PEL (ppm)	ACGIH TLV (ppm)
Propylene	115-07-1	99.5 - 100	Not Established	500
Propane	74-98-6	0 - 0.5	1,000	1,000

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW: Warning! Container under pressure. This product contains propylene a colorless liquid that rapidly turns into a gas at standard atmospheric temperatures and pressure. Propylene has a slight hydrocarbon odor. In commerce propylene is packaged as a liquefied gas under pressure. Propylene is extremely flammable and explosive. At high concentrations it acts as a simple asphixiant by diluting and displacing oxygen, particularly in confined spaces. Direct contact with liquefied product may cause freeze burns and frostbite. Use this product only in well ventilated areas and, where appropriate, proper respiratory protection and personal protective equipment should be worn.**



**FORM:** Gas  
**COLOR:** Colorless  
**ODOR:** Weak but unpleasant smell; Hydrocarbon

**POTENTIAL HEALTH HAZARDS**

**Primary Entry Routes:** Inhalation.

**Target Organs:** Respiratory system.

**Potential Health Effects:** Contact with liquefied gas or rapidly expanding gases (which are released under high pressure) may cause frostbite. Symptoms of frostbite include change in skin color to white or grayish-yellow. The pain after such contact can quickly subside.

**Inhalation:** Product is an anesthetic at high concentrations. Inhalation may cause central nervous system depression producing dizziness, drowsiness, headache, and similar narcotic symptoms. Extremely high concentrations can cause asphyxiation and death by displacing oxygen from the breathing atmosphere.

**Eye & Skin Contact:** Vapor is generally non-irritating neither to the eyes nor to the skin. Contact with liquefied gas or rapidly expanding gases may cause freeze burns and frostbite.

**Ingestion:** Ingestion is not likely.

**Medical Conditions Aggravated By Exposure:** Chronic diseases or disorders of the respiratory system. Toxicological Information: Propylene is an anesthetic and is mildly irritating to the mucous membranes. At high concentrations propylene acts as a simple asphixiant without significant potential for systemic toxicity. High concentrations can cause death due to oxygen depletion. Toxicity data can be found in the Registry of Toxic Effects of Chemical Substances available on-line from the National Institute for Occupational Safety and Health (NIOSH).

**Carcinogenic Effects:** Propylene is not identified as being carcinogenic by the International Agency for Research on Cancer (IARC), The National Toxicology Program (NTP), ACGIH or OSHA.

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**4. FIRST AID MEASURES**

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**SKIN:** Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation or redness develops. In case of frostbite, place affected area in warm water (do not exceed 30°C) or wrap in blankets if warm water is not available. DO NOT USE HOT WATER. Seek immediate medical attention.



**EYES:** Flush eyes with plenty of water for at least 15 minutes while occasionally lifting the eyelids. Seek medical attention.

**INHALATION:** Remove victim to fresh air, as quickly as possible and keep warm. If breathing fails, administer oxygen or artificial respiration. Obtain immediate medical attention.

**INGESTION:** Risk of ingestion is extremely low. Seek immediate medical attention in cases of ingestion or oral exposure.

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## 5. FIRE AND EXPLOSION DATA

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<b>Flash Point:</b>	-162°F
<b>Auto Ignition:</b>	927°F
<b>Lower Explosion Limit:</b>	2.0% by volume in air
<b>Upper Explosion Limit:</b>	11.0% by volume in air
<b>General Fire Hazards:</b>	Liquid releases vapors that readily form a flammable mixture with air. Dangerous fire and explosion hazard when exposed to heat, sparks or flame. Vapors are heavier than air and may travel long distances to a point of ignition. Container may explode in heat or flame.
<b>Hazardous Combustion Products:</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ) and various non-combusted hydrocarbons.
<b>Extinguishing Media:</b>	Dry chemical, foam, carbon dioxide, Halon or water.
<b>Unusual Fire Hazards:</b>	Use extreme caution when fighting liquefied petroleum gas fires. Heated containers may rupture violently and suddenly without warning due to vessel overpressure (BLEVE-boiling liquid expanding vapor explosions). If safe to do so stop the flow of gas and allow the flame to burn out. Extinguishing the flame before shutting off the supply can cause formation of explosive mixtures. In some cases it may be preferred to allow the flame to continue to burn. Use water to cool equipment, surfaces and containers exposed to fire and excessive heat.

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## 6. ACCIDENTAL RELEASE MEASURES

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**IN CASE OF SPILL OR OTHER RELEASE:** (Always wear recommended personal protective equipment)  
Evacuate everyone from the area with exception of those dealing with the emergency. Isolate power and extinguish all sources of ignition. Ventilate area and, if safe to do so, isolate gas supply to point of leakage. Disperse gas with water spray. Cover drains, sewers, entrances to basements etc. Inform authorities if major spillage occurs.

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## 7. HANDLING AND STORAGE

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**NORMAL HANDLING:**

(Always wear recommended personal protective equipment)

Keep away from flame, sparks and excessive temperatures. Use only in well-ventilated areas.

**STORAGE RECOMMENDATIONS:**

Store in a cool, dry, well-ventilated area away from sources of ignition, strong oxidizers or other incompatible materials. Post "No Smoking or Open Flame" signs in the storage and use areas. Protect cylinders against physical damage. Do not cut, drill, grind or weld on empty cylinders since they may contain explosive residues. Do not attempt to refill cylinders.

**SPILL RESPONSE PROCEDURES:**

Evacuate area of all unnecessary personnel. Remove or shut off all sources of ignition. Ventilate the area thoroughly.

**DISPOSAL:**

Waste disposal must be in accordance with appropriate Federal, State and local regulations.

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**8. PERSONAL PROTECTION**

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**Engineering Controls:** Use product in a well ventilated area. Use local ventilation to control exposure of the product to below the recommended limits.

**Ventilation:** Use adequate ventilation to keep gas and vapor concentrations of this product below the occupational exposure and flammability limits, particularly in confined spaces. Use mechanical ventilation that is explosion proof.

**Respiratory Protection:** Maintain oxygen levels above 19.5% in the workplace. Respirators must be worn if ambient concentrations of contaminants exceed prescribed exposure limits. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134). Select respirator based on its suitability to provide adequate worker protection for given work conditions, level of airborne contamination, and presence of sufficient oxygen. When required, only NIOSH approved respirators should be used.

**Protective Clothing:** Protective clothing should be worn to prevent skin contact. Protective gloves should be worn as required for welding or burning. Use insulated gloves where there is the possibility of liquid contact.

**Eye Protection:** Use safety glasses or goggles as required for welding or burning. Use splash-proof goggles or face shield where there is the possibility of liquid contact.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE:** Colorless gas

**BOILING POINT:** -54°F



<b>MELTING POINT:</b>	-301°F
<b>SPECIFIC GRAVITY:</b>	0.52 (liquid)
<b>MOLECULAR WEIGHT:</b>	42
<b>VAPOR PRESSURE:</b>	109.73 psig @ 70°F
<b>VAPOR DENSITY (Air = 1):</b>	1.5 at 32°F (Air = 1.0)
<b>SOLUBILITY IN WATER:</b>	Slight
<b>PERCENT VOLATILE BY WEIGHT:</b>	100
<b>ODOR:</b>	Weak but unpleasant smell; Hydrocarbon

**HOW TO DETECT THIS SUBSTANCE** (warning properties): The odor is a distinct characteristic of this gas mixture. Additionally, in terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

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## 10. STABILITY AND REACTIVITY

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**CHEMICAL STABILITY:** Stable

**INCOMPATIBILITY:** Strong oxidizers such as nitrates, perchlorates, chlorine and fluorine.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides and various hydrocarbons formed when burned.

**HAZARDOUS POLYMERIZATION:** Does not polymerize except under special conditions (extreme temperature, pressure, oxidizers).

**CONDITIONS TO AVOID:** Sources of heat, sparks or flame.

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## 11. TRANSPORT INFORMATION

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This material is hazardous as defined by 49 CFR 172.101 by the U.S. Department of Transportation.

<b>PROPER SHIPPING NAME:</b>	Propylene
<b>HAZARD CLASS NUMBER:</b>	2.1 (Flammable Gas)
<b>UN IDENTIFICATION NUMBER:</b>	UN 1077
<b>PACKING GROUP:</b>	Not applicable.
<b>DOT LABEL(S) REQUIRED:</b>	Flammable Gas
<b>PLACARD:</b>	Flammable Gas I UN1077
<b>HAZARDOUS SUBSTANCE/RQ:</b>	Not Applicable
<b>SHIPPING DESCRIPTION:</b>	Propylene, 2.1 (Flammable Gas), UN 1077 Packaging
<b>REFERENCES:</b>	49 CFR 173.304, 173.306, 173.314 and 173.315

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## 12. REGULATORY INFORMATION

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**US Federal Regulations:**

- OSHA Hazardous Communication (29 CFR Part 1910.1200): This product is hazardous as defined in OSHA's Hazard Communication standard.



- OSHA Process Safety Management (29 CFR Part 1910.119): This product may be subject to OSHA's Process Safety Management of Highly Hazardous Chemicals standard.
- CERCLA Reportable Quantities (40 CFR Part 302.4): This product is not reportable under 40 CFR Part 302.4.
- Extremely Hazardous Substances (40 CFR Part 355): This product is not regulated under 40 CFR Part 355.
- SARA 311/312 Hazard Class (40 CFR Part 370): The following hazard categories apply to this product:
  - Acute Health Hazard
  - Fire Hazard
  - Sudden Release of Pressure
- SARA 313 (40 CFR Part 372): Propylene is subject to the Toxic Release Reporting requirements of 40 CFR Part 372.
- TSCA Inventory Status: Propylene is listed on the TSCA Inventory.
  - Chemical Accident Prevention Provisions (40 CFR Part 68): Propylene is subject to the reporting requirements of 40 CFR Part 68.

**State Regulations:**

- California Proposition 65: Propylene is not on the California Proposition 65 lists.
- The following States are known to have specific regulations applicable to ingredients in this product:
  - Massachusetts
  - Minnesota
  - New Jersey
  - Pennsylvania
  - Rhode Island

**Other Regulations:**

- Canada DSL/NDSL Inventory: Propylene is listed on the Domestic Substances List.

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**13. OTHER INFORMATION**

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	<b>Health Hazard</b>	<b>Flammability</b>	<b>Physical Hazard</b>	<b>Instability</b>
<b>HMIS Classification</b>	1	4	1	
<b>NFPA Classification</b>	1	4		1

**WHIMS:** A, B1

**Note:**

The HMIS ratings displayed on this MSDS are from the HMIS Third Edition. There have been significant changes made to the system. "PH" stands for "Physical Hazard" as defined in the OSHA Hazardous Communication Standard and replaces the former code "R" for "Reactivity."



## MSDS MAPP-PRO

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