

Section 1: Product and Company Identification

Product: Description: Date Issued: Last Revised:	Map-Pro Premium Hand Torch Fuel Propylene February 26, 2008 Original	Company: Address: Information: Emergency:	Victor Equipment Company 2800 Airport Road Denton, TX 76207 1-940-566-2000 CHEMTREC 1-800-424-9300 (US, Canada, Puerto Rico, Virgin Islands) 1-703-527-3887 (Outside Above Area)
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Section 2: Hazardous Ingredients and Exposure Limits

Ingredient	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	1000	1000

Section 3: Physical and Chemical Properties

Boiling Point: -54 °F	Vapor Pressure: 109.73 psig @ 70 °F
Melting Point: -301 °F	Vapor Density (air=1): 1.5 @ 32 °F
Specific Gravity: 0.52 (liquid)	Solubility in Water: Slight
Molecular Weight: 42	Percent Volatile by Weight: 100
Appearance: Colorless gas	Odor: Hydrocarbon

Section 4: Fire and Explosion Data

Flash Point: -162 °F

Auto Ignition: 927 °F

Lower Explosion Limit: 2.0% by volume in air

Upper Explosion Limit: 11.0% by volume in air

General Fire Hazards: 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.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide and various non-combusted hydrocarbons.

Extinguishing Media: Dry chemical, foam, carbon dioxide, Halon or water.

Unusual Fire Hazards: 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.



Section 5: Reactivity Data

Chemical Stability: Stable

Hazardous Decomposition Products: Carbon oxides and various hydrocarbons formed when burned.

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

Hazardous Polymerization: Does not polymerize except under special conditions (extreme temperature, pressure, oxidizers).

Conditions to Avoid: Sources of heat, sparks or flame.

Section 6: Hazards Identification

Overview: 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 liquified 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.

Primary Entry Routes: Inhalation

Target Organs: Respiratory system

Potential Health Effects:

- 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.
- Eyes: Vapor is generally non-irritating to the eyes. Contact with liquefied gas or rapidly expanding gases may cause freeze burns and frostbite.
- Skin: Vapor is generally non-irritating 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.

Section 7: First Aid Measures

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

Skin Contact: 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 or wrap in blankets if warm water is not available. DO NOT USE HOT WATER. Seek immediate medical attention.

Inhalation: Remove to fresh air. Administer oxygen or artificial respiration if necessary. Seek immediate medical attention.

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



Section 8: Personal Protective Equipment

Engineering Controls: Good industrial hygiene practice requires that engineering controls be used where feasible to reduce workplace concentrations of hazardous materials.

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 faceshield where there is the possibility of liquid contact.

Section 9: Handling and Storage

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

Storage Requirements: 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.

DOT Requirements: Product is classified as a Hazardous Substance under 49 CFR 172.101.

Shipping Name: Propylene Hazard Class: 2.1 (Flammable Gas) ID Number: UN 1077 Packing Group: Not Applicable Marking: Propylene, UN 1077 Label: Flammable Gas Placard: Flammable Gas / UN1077 Hazardous Substance/RQ: Not Applicable Shipping Description: Propylene, 2.1 (Flammable Gas), UN 1077 Packaging References: 49 CFR 173.304, 173.306, 173.314 and 173.315

Section 10: Regulatory Information

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:

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- 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.

Section 11: Other Information

Hazard Ratings:

NFPA:	H-1, F-4, R-1
HMIS [®] :	H-1, F-4, PH-1
WHIMS:	A, B1

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."

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.