



Ultra Cool Inc.
4839 Union Rd.
Beamsville, ON, L3J 0V6
www.ultracool.ca
905-643-0060

PRODUCT: MAPP Gas

CODE: UF-4941

SECTION 01: IDENTIFICATION

Product Identifier..... MAPP Gas
Other means of Identification..... UF-4941
Chemical Family..... Propylene / propane and dimethyl ether.
Recommended use of product and any ... Fuel, soldering, brazing & refrigerant gas. No known restrictions.
restrictions
Initial Supplier Identifier..... Ultra Cool Inc.
4839 Union Rd
Beamsville, ON L3J-0V6
Tel: 905-643-0060
Fax: 905-828-8070
Emergency telephone number and any ... Ultra Cool Products: 905-643-0060 (9:00 - 5:00; M-F) . In the event of a transport
restrictions on the use of that number emergency contact CANUTEC at (613) 996-6666. .

SECTION 02: HAZARD IDENTIFICATION



Signal Word..... DANGER.
Hazard Classification..... Flammable Gases — Category 1. Gases Under Pressure — Liquefied Gas.
Hazard Statements..... H220 Extremely flammable gas . H280 Contains gas under pressure; may explode if
heated .
Prevention..... P210 Keep away from all sources of heat, sparks, open flames, hot surfaces. No smoking.
Response..... P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely . P381 In case
of leakage, eliminate all ignition sources .
Storage..... P410 + P403 Protect from sunlight. Store in a well-ventilated place .
Disposal
Other hazards..... None known.
Mixture Statement..... This product has been classified based upon the information provided by the supplier.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Propylene	115-07-1	80-100

SECTION 04: FIRST-AID MEASURES

FIRST AID MEASURES:

Skin Contact..... Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.
Get medical attention if symptoms occur. ON FROSTBITE: rinse with plenty of water, do
NOT remove clothes. Get medical attention immediately. Wash clothing before reuse.
Clean shoes thoroughly before reuse.
Eye Contact..... Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at
least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention
immediately.
Ingestion..... Do not induce vomiting unless directed by medical personnel. If vomiting occurs naturally,
the person should lean forward to reduce the risk of aspiration. Loosen tight clothing. Do
not use mouth-to-mouth method if victim ingested the substance. Never give anything by
mouth to an unconscious person. Seek immediate medical attention.
Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is
difficult, give oxygen. Get medical attention. It may be dangerous to the person providing
air to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get
medical attention immediately. Maintain an open airway. Loosen tight clothing such as a
collar, tie, belt or waistband.
Most important symptoms and effects, both acute and delayed Rapid evaporation of the liquid may cause frostbite. High concentrations in the air cause a
deficiency of oxygen with the risk of unconsciousness or death. . Repeated or prolonged
exposure may produce cumulative health effects involving organs or biochemical systems.
Based on limited evidence.

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SECTION 04: FIRST-AID MEASURES

Indication of any immediate medical attention and special treatment needed Treat symptomatically. Symptoms may be delayed. Take a copy of this SDS for medical personnel.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable extinguishing media..... Carbon dioxide, dry chemical or water spray.
 Unsuitable extinguishing media..... High pressure water jet.
 Specific hazards arising from the Contains gas under pressure. Extremely flammable gas. Mixed with air can produce an explosive mixture. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Containers exposed to fire may leak their contents through the pressure relief valve. Expansion or explosive decomposition may occur upon exposure to heat or flame.
 hazardous product, such as the nature of any hazardous combustion products Cool containers with water spray. Eliminate all ignition sources if safe to do so. Cut off gas supply if safe to do so. Use self-contained breathing apparatus and full firefighting gear. Decomposition and combustion products may be toxic. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Prevent product and discharge from entering drains.

Special protective equipment and
 precautions for fire-fighters

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective No action shall be taken involving any personal risk or without suitable training. Evacuate equipment and emergency procedures surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8). Avoid breathing vapours, fumes. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust on floors and other horizontal surfaces. Vapors can accumulate in low lying areas. Wear approved respiratory and personal protection equipment. Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Check oxygen content before entering area. Turn leaking cylinder with the leak up to prevent escape of gas in liquid state. Keep people away and stay on the upwind side.

Environmental Precautions..... Avoid dispersal of spilled material and runoff coming in contact with soil, waterways, drains and sewers.

Methods and materials for containment .. Do not put out fire unless leak can be safely plugged. Remove sources of ignition. No and cleaning up smoking.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling..... Exposure to this product requires prior training and information. Read the information on the label and the safety data sheet before handling this product. Contains gas under pressure. Put on appropriate personal protective equipment. Wear appropriate respirator when ventilation is inadequate. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. Launder contaminated clothing before reuse. When using, do not eat or drink. Wash hands before eating, drinking, or smoking. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide or drop. Use good safety measures and observe industrial hygiene practices.

Conditions for safe storage, including any Observe label instructions. Store in accordance with local regulations. Store in a incompatibilities segregated and approved area. Store away from all sources of heat and ignition. Store away from direct sunlight. Store away from incompatible materials. Keep container tightly closed in a well ventilated area. Store in a dry cool well ventilated area. Use good industrial handling and hygiene practices.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Propylene	Not available	Not available	Not available	Not available	Not available	Not available
	Not available					

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SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits.....	MAPP Gas: NIOSH REL TWA 1000 ppm (1800 mg/m3) ST 1250 ppm (2250 mg/m3) OSHA PEL TWA 1000 ppm (1800 mg/m3). Manufacturer: TLV-TWA:300 mg/m3.
Appropriate engineering controls.....	The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion -proof ventilation equipment.
Individual protection measures, such as personal protective equipment:	
Eye/Type.....	Wear chemical goggles tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Consult your supplier of personal protective equipment for additional instructions on proper usage.
Gloves/Type.....	Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed. Avoid getting this material on clothing. Consult your supplier of personal protective equipment for additional instructions on proper usage.
Footwear/Type.....	Chemical resistant safety boots. Consult your supplier of personal protective equipment for additional instructions on proper usage.
Clothing/Type	Wear adequate protective clothing to prevent skin contact. Anti-static clothing. Avoid getting this material on clothing. Consult your supplier of personal protective equipment for additional instructions on proper usage.
Respiratory/Type.....	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. Consult your supplier of personal protective equipment for additional instructions on proper usage.
Other/Type.....	Handle in accordance with good industrial hygiene and safety practice. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Emergency eye wash station and shower should be available. Anyone handling this product should wash their hands and face before eating, drinking or using tobacco products. NO SMOKING.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance / physical state	Liquefied. Gas.
Colour.....	Colorless.
Odour.....	Hydrocarbon.
Odour Threshold (ppm).....	Not available.
pH.....	Not applicable.
Melting/Freezing Point.....	-185 C.
Initial Boiling Point/Boiling Range.....	-48 C.
Flash Point (deg C), Method.....	Not applicable.
Evaporation Rate.....	Not available.
Flammability (solid/gas).....	Extremely flammable gas.
Upper Flammable Limit (% Vol).....	10.3.
Lower Flammable Limit (% Vol).....	2.4.
Vapour Pressure (mm Hg).....	1158 kPa (25 ?).
Vapour Density (Air=1).....	1.5.
Relative Density/Specific Gravity.....	0.5. (water = 1).
Solubility.....	Slightly soluble in water. Soluble in ethanol. Soluble in ether.
Partition coefficient — n-octanol/water.....	log Pow = 1.77.
Auto Ignition Temperature (deg C).....	460.
Decomposition temperature.....	Not applicable.
Viscosity.....	Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Reactivity.....	No data available.
Chemical stability.....	Stable at normal temperatures and pressures.
Possibility of hazardous reactions.....	The addition products that react with nitrogen dioxide, nitrogen oxides and ammonia to form nitrogen oxides are prone to explosion.
Conditions to avoid, including static	Avoid all sources of ignition: heat, sparks, open flame. Avoid sunlight. Avoid extreme temperatures. Static discharge.
Incompatible materials.....	Nitrogen dioxide. Nitrogen oxides. Ammonia. Oxidants. Halogens. Halogenated hydrocarbons.
Hazardous decomposition products.....	Carbon dioxide, carbon monoxide. Unburned hydrocarbons (smoke).

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Propylene	>50000 ppm (4 hr.)	Not available
Route of Exposure.....	Skin contact, eye contact, inhalation, ingestion.	
ATEs.....	ATE: 658 mg/l (4 hour).	

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SECTION 11: TOXICOLOGICAL INFORMATION

Symptoms related to the physical, chemical and toxicological characteristics
Effects of Acute Exposure.....

When inhaled with high concentration of gas, general paralysis and other similar symptoms may occur; When in direct contact or inhalation, temporary symptoms such as dizziness, headache, dullness, wheezing, blurred consciousness, and motor dysfunction may occur. In severe cases, it can lead to arrhythmia or even cardiac arrest.

Effects of Chronic Exposure.....
Sensitization.....
Serious eye damage/irritation.....
Skin corrosion/irritation.....
Carcinogenicity.....

Not classified.
Not a respiratory sensitizer. Not a skin sensitizer.
Not classified.

Mutagenicity.....
Reproductive Toxicity.....
Specific Target Organ Toxicity - single exposure.....
Specific Target Organ Toxicity - repeated exposure.....
Aspiration Hazard.....

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA OR ACGIH as a carcinogen.

No known mutagenicity effects.

No known reproductive effects.

This information, if applicable, can be found in Section 2.

This information, if applicable, can be found in Section 2.

Does not meet the classification criteria. When the container is damaged, the liquid rapidly evaporates, causing supersaturation in the air of the enclosed space, posing a serious risk of suffocation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....

May be harmful to the environment. Discharge into the environment must be avoided.

Persistence and degradability.....

Product data not available.

Bioaccumulation Potential.....

No product data available.

Mobility in soil.....

No product data available.

Other adverse effects.....

Product data not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any contaminated packaging

Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations. DO NOT HEAT OR CUT EMPTY CONTAINERS WITH ELECTRIC OR GAS TORCH.

SECTION 14: TRANSPORT INFORMATION

TDG Classification.....

UN1077, POLYPROPYLENE, 2.1.

Proof of Classification.....

In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July 2, 2014) - we certify that classification of this product is correct.

SECTION 15: REGULATORY INFORMATION

CEPA Status.....

Not reviewed.

National Pollutant Release Inventory (NPRI).....

The following substances in this product are listed on the NPRI. Please check the Regulations to determine your company's responsibility: (CAS # 115-07-1 (Cat. 1A & 5)).

Environmental Emergency Regulations.....

The following substances in this product are listed on the Environmental Emergency Regulations. Please check the Regulations to determine your company's responsibility: (CAS # 115-07-1).

CMP Categorization.....

The following substances have met the criteria under subsection 73(1) of the Canadian Environmental Protection Act, 1999 (CEPA). Please read the Regulations to determine your company's responsibility: (CAS # 115-07-1).

TSCA Inventory Status.....

Not reviewed.

SECTION 16: OTHER INFORMATION

Prepared by

Trivalent Data Systems Ltd. <http://www.trivalent.com> . Information based on suppliers SDS.

Disclaimer.....

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form.

Date of the latest revision of the safety data sheet ...

2024-07-22