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## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION

**Product Code:** 10007  
**Product Trade Name:** Methyl Hydrate  
**Product Class / Intended End Use:** Thinner/Cleaner  
**Emergency Telephone Numbers:** For emergency health, safety and environmental information call 416-252-5676 (Monday to Friday 9am-4pm est/edt)

**For Emergency Transportation Information call CANUTEC at 613-996-6666**

### SECTION 2: HAZARDS IDENTIFICATION

**Classification:**

	Category
Flammable liquids	2
Acute oral toxicity	3
Acute dermal toxicity	3
Acute inhalation toxicity - vapours	3
Specific target organ toxicity (single exposure)	1
Target organs – optic nerve	
Specific target organ toxicity – (repeated exposure)	1
Target organs – kidney, liver, spleen, blood	
<b>Signal word:</b>	<b>DANGER!</b>

**Hazard Statements:**

- Highly flammable liquid and vapour
- Toxic if swallowed
- Toxic in contact with skin
- Toxic if inhaled
- Causes damage to organs
- Causes damage to organs through prolonged or repeated exposure

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## Precautionary Statements:

- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection
- Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/mist/vapours/spray
- Keep away from heat/sparks/open flames/hot surfaces. NO SMOKING
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion proof electrical/ventilating/lighting/equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Keep cool

## Other Hazards:

- POISON may be fatal or cause blindness if swallowed.
- Vapour harmful
- Cannot be made non-poisonous

## Hazard Pictograms:



## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	WT RANGE %
Methyl alcohol	67-56-1	>90
<i>N/A = Not Available N/E = Not Established</i>		

## SECTION 4: FIRST-AID MEASURES

- Ingestion:** Do NOT induce vomiting. Call a physician or Poison Control Centre immediately.
- Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
- Skin Contact:** Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
- Eye Contact:** Immediately flush eyes with gentle flowing water for 10-15 minutes. Remove contact lenses if present and easy to do. Get medical attention.

***Call a poison centre or doctor/physician if you feel unwell.***

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## Most Important Symptoms and Effects (both acute and delayed):

- Breathing difficulties: May cause blindness.
- Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

## Indication of any Immediate Medical Attention and Special Treatment Needed:

- Immediate medical attention is required. May be harmful or fatal if swallowed.
- Onset of symptoms may be delayed for 18 to 24 hours after ingestion. Symptoms may be delayed.

## Notes to Physician:

- Treat symptomatically

## SECTION 5: FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media:

Water fog, CO<sub>2</sub>, extinguishing powder, foam. Cool closed containers exposed to fire with water spray.

### Unsuitable Extinguishing Media:

Water may be ineffective.

### Specific Hazards Arising from the Substance or Mixture:

Flammable. Risk of ignition. Vapours may form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Containers may explode when heated. Vapours may form explosive mixtures with air.

### Special Protective Equipment and Precautions for Fire Fighters:

Move containers from fire area if possible to do without risk. Use water spray to cool fire-exposed containers. Wear self-contained breathing (SCBA) apparatus and full firefighting protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures:

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

### Environmental Precautions:

Should not be released into the environment.

### Methods and Materials for Containment and Clean Up:

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling:

Wear personal protective equipment. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not ingest. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapours by static discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

### Conditions for Safe Storage:

Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Flammable areas.

### Incompatibles:

Acids, strong oxidizers.

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA PEL (ppm)	
	TWA	STEL	PEL	STEL
Methyl alcohol	200	250	200	250
<i>N/A = Not Available N/E = Not Established</i>				

- Control Parameters:** No TLV data available on product.
- Appropriate Engineering Controls:** Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal Protective Equipment Respiratory Protection:** If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapour cartridge and dust/mist filter.
- Eye/Face Protection:** Use safety glasses, goggles or full face shield where required.
- Skin Protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.
- Other Considerations:** When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

## SECTION 9: PHYSICAL PROPERTIES

Physical State/Appearance:	Clear Liquid
Odour:	Slight
Odour Threshold:	Data Not Available
pH:	Not Applicable
Melting Point:	-98 °C / -144.4 °F
Freezing Point:	Not Applicable
Boiling Point:	64.7 °C / 148.5 °F @ 760 mmHg
Flash Point (Setaflash Closed Cup):	12 °C / 53.6 °F
Relative Evaporation Rate (Butylacetate=1)	Data Not Available
Flammability (solid, gas):	Yes
Explosive Limit:	Upper: 31.00 vol% Lower: 6.0 vol%
Vapour Pressure:	D128hPa @20°C
Vapour Density:	1.11
% Volatiles by Weight:	100
Specific Gravity:	0.791
Solubility in Water:	Complete
Partition Coefficient:	Data Not Available
Auto Ignition Temperature:	455 °C / 851 °F
Decomposition Temperature:	Data Not Available
Viscosity:	<20 cps

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## SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Avoid contact with incompatibles
Chemical Stability:	Stable at normal condition of usage
Possibility of Hazardous Reactions:	Will not occur
Conditions to Avoid:	Avoid ignition sources, heat, sparks, open flame, direct sunlight and extremely high or low temperatures. Do not use in areas without adequate ventilation.
Incompatibles:	Strong oxidizing agents, Strong acids, Acid anhydrides, Acid chlorides, Strong bases, Metals, Peroxides.
Hazardous Decomposition Products:	Carbon monoxide (CO), Formaldehyde

## SECTION 11: TOXICOLOGICAL INFORMATION

Name	LD 50			LC 50		
	mg/kg	Animal	Route	ppm	Animal	Route
Methyl alcohol	>1187 – 2769 17100	Rat Rabbit	Oral Dermal	128.2 mg/L	Rat	Inhalation, 4h
<b><i>N/A = Not Available N/E = Not Established</i></b>						

<b>Acute Toxicity:</b>	No test data on mixture.
<b>No Test Data for the Mixture On:</b>	Skin corrosion/irritation, eye damage/irritation, skin sensitization, respiratory sensitization, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT-single exposure, STOT- repeated exposure, aspiration.
<b>Likely Routes of Exposure:</b>	Inhalation, eye contact, skin contact, ingestion.
<b>Symptoms/Injuries after Inhalation:</b>	Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Breathing difficulties.
<b>Symptoms/Injuries after Skin Contact:</b>	May cause mild skin irritation. Product may be absorbed and cause symptoms similar to those listed for ingestion.
<b>Symptoms/Injuries after Eye Contact:</b>	May cause blindness.
<b>Symptoms/Injuries after Ingestion:</b>	Harmful or fatal if swallowed.
<b>STOT: Single Exposure:</b>	Optic Nerve
<b>STOT: Repeated Exposure:</b>	Kidney, liver, spleen, blood

## SECTION 12: ECOLOGICAL INFORMATION

Toxicity:	No test data on mixture
VOC (%):	100
Persistence and Degradability:	No test data on mixture
Bio-accumulative Potential:	No test data on mixture
Mobility in Soil:	No test data on mixture
Other Adverse Effects:	None known

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## SECTION 13: DISPOSAL CONSIDERATIONS

- Handling for Disposal:** Handle waste according to recommendations in Section 7.
- Methods of Disposal:** Dispose of in accordance with federal, provincial/state and local hazardous waste laws. Do not discharge into sewage or municipal water. Do not incinerate closed containers.
- RCRA:** If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**DO NOT INCINERATE CLOSED CONTAINERS**

## SECTION 14: TRANSPORTATION INFORMATION

<b>UN Number:</b>	1230
<b>UN Proper Shipping Name:</b>	Methanol
<b>Transport Hazard Class:</b>	3
<b>Packing Group:</b>	II
<b>Environmental Hazards:</b>	Information not available
<b>Special Precautions for User:</b>	Appropriate advice on safety should accompany the package. Keep away from heat, sparks and open flame. Avoid static electricity.
<b>Transport in Bulk:</b>	Information not available.

## SECTION 15: REGULATORY INFORMATION

- Canada:** All components are in compliance with the Canadian environmental protection act and are present on the domestic substances list. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.
- USA:**
- TSCA:** All components of this material are on the US TSCA inventory or are exempt.
  - OSHA:** This material is classified as hazardous under OSHA regulation (29CFR 1910.1200).
  - CERCLA:** Reportable quantities (RQ) (40 CFR 117.302). Data not available.
  - SARA TITLE 111:** Sec 302, extremely hazardous substances, 40 CFR 355 - Data not available
  - SARA TITLE 111:** Sec 313, toxic chemical notification, 40 CFR 372 - Data not available

## SECTION 16: OTHER INFORMATION

<b>HMIS:</b>	Health 2	Flammability 3	Reactivity 0	
<b>NFPA:</b>	Health 2	Flammability 3	Reactive Instability 0	Special Hazard 0

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**END OF SAFETY DATA SHEET**