

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION

OSTREM CHEMICAL CO. LTD.  
2310 - 80 AVENUE  
EDMONTON AB T6P 1N2

Phone: 780-440-1911 or 780-446-0177  
In Case of Emergency Only:  
phone CANUTEC at (613) 996-6666

**Product name:** METHYL HYDRATE

Code: H545

**Other name:**

**Distributed by:**

**Product use:**

**Date completed:** April 01, 2014

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
methanol	100	67-56-1

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### 3. HAZARDS IDENTIFICATION

Flammable liquid and vapour. May cause dizziness, headache or nausea. May be harmful if inhaled. Harmful if swallowed. May cause blindness.

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### 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Induce vomiting only on the direct advice of a poison control centre. Get medical attention.

**Eye contact:** Flush with plenty of water for at least 15 minutes. Get medical attention.

**Skin contact:** Remove contaminated clothing and flush with plenty of water.

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### 5. FIRE - FIGHTING MEASURES

**Flash point (test method):** 54F/12C closed cup

**Flammable limits (%):** Flammable

**Lower:** Not available

**Upper:** Not available

**Fire extinguishing substances:** dry chemical, alcohol-resistant foam, carbon dioxide

**Autoignition temperatures:** 725F/385C

**Hazardous combustion products:** May liberate carbon monoxide, carbon dioxide.

**Explosion data:**

**Sensitivity to mechanical impact:** Not available

**Sensitivity to static discharge:** Not available

**Special firefighting procedures:** As for surrounding fire. Fire fighters should wear full protective clothing and self contained breathing equipment.

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### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear appropriate protective equipment.

**Environmental precautions:** Prevent from entering sewers, waterways or low areas.

**Methods for cleaning up:** Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

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### 7. HANDLING AND STORAGE

**Handling:** Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Storage:** Keep out of reach of children. Keep container tightly closed. Store in a cool, dry area.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:** Provide exhaust ventilation to keep airborne levels below recommended exposure limits.

**Respiratory protection:** If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator

**Eye protection:** Chemical goggles. Wear a face shield if splashing hazards exists.

**Other protection:** Wear protective clothing as necessary to prevent skin contact.

### Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
methanol	CAD AB OEL 200 ppm (262mg/m3)		

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid	<b>Solubility in water:</b>	Complete
<b>Boiling point:</b>	64.7C	<b>Vapour pressure:</b>	16.93kPa@77F/25C
<b>Vapour density:</b>	1.11 (AIR=1)	<b>Evaporation rate:</b>	2.1
<b>Freezing point:</b>	Not available	<b>Odour threshold:</b>	Not available
<b>Sp. Gravity:</b>	0.798	<b>pH:</b>	not applicable
<b>Appearance &amp; odour:</b>	colourless liquid with a pungent alcohol odour		

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions of instability:** Not available

**Incompatibility:** Avoid contact with bleach, peroxide, reactive metals, strong acids, strong bases, strong oxidizing agents and zinc.

**Conditions of reactivity:** Not available

**Hazardous decomposition products:** Not available

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## 11. TOXICOLOGICAL PROPERTIES

### POTENTIAL ACUTE HEALTH EFFECTS

**Inhalation:** Causes irritation and may cause weakness, dizziness, slurred speech, drowsiness, unconsciousness; and in severe cases of overexposure, coma and death.

**Ingestion:** Harmful if swallowed. Causes burns to mouth, throat and stomach.

**Eye contact:** May cause mild to severe irritation such as stinging, tearing, redness and swelling of the eyes.

**Skin contact:** May cause skin irritation.

**Skin absorption:** Not available

### POTENTIAL CHRONIC HEALTH EFFECTS:

**Inhalation:** Repeat or prolonged exposure may cause damage to lungs.

**Ingestion:** Not available

**Eye contact:** Not available

**Skin contact:** Not available

**Skin absorption:** Not available

<b>Irritancy of product:</b>	See WHMIS criteria
<b>Sensitization of product:</b>	Not available
<b>Carcinogenicity:</b> IARC (1, 2A or 2B)	No known significant effects.
ACGIH: (A1, A2 or A3)	No known significant effects.
<b>Reproductive toxicity:</b>	No known significant effects.
<b>Teratogenicity:</b>	No known significant effects.
<b>Mutagenicity:</b>	No known significant effects.

**Synergistic product:** Not available

HAZARDOUS INGREDIENTS  
methanol

CAS NO.  
67-56-1

TOXICITY DATA  
LDL0 oral human: 300 mg/kg  
LD50 oral rabbit: 12,800 mg/kg  
LC50 inhalation rat: 64,000 ppm/4H

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicological information:** Not available

**Other information:**

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## 13. DISPOSAL CONSIDERATIONS

**Waste disposal:** Disposal of all waste must be done according to local, provincial and federal regulations.

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## 14. TRANSPORT INFORMATION

**TDG classification:** METHANOL; Class 3 (6.1); UN 1230; PG II

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## 15. REGULATORY INFORMATION

**WHMIS:**

B2	Flammable Liquid
D1A	Very Toxic Material causing Immediate and Serious Toxic Effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

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## 16. PREPARATION INFORMATION

**Prepared by:** Technical Services Department, Ostrem Chemical Co. Ltd., Ph: (780) 440-1911