

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: COMBINE COMPATIBILITY AGENT

Code: E419

Other name:

Distributed by:

Product use:

Date completed: April 01, 2014

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
methanol	10-30	67-56-1
alkylethoxy mono and diphosphate esters	30-60	68130-47-2

3. HAZARDS IDENTIFICATION

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

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.

5. FIRE - FIGHTING MEASURES

Flash point (test method): 25C

Flammable limits (%): Flammable

Lower: Not available

Upper: Not available

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

Autoignition temperatures: Not available

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.

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.

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.

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/m ³)		
alkylethoxy mono and diphosphate esters	Not available		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid	Solubility in water:	Complete
Boiling point:	Not available	Vapour pressure:	Not available
Vapour density:	Not available	Evaporation rate:	Not available
Freezing point:	Not available	Odour threshold:	Not available
Sp. Gravity:	1.0505	pH:	2.4
Appearance & odour:	clear semi-viscous liquid with no apparent odour		

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

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

Irritancy of product: See WHMIS criteria
Sensitization of product: Not available
Carcinogenicity: IARC (1, 2A or 2B) No known significant effects.

ACGIH: (A1, A2 or A3)

Reproductive toxicity:

Teratogenicity:

Mutagenicity:

Synergistic product:

No known significant effects.

No known significant effects.

No known significant effects.

No known significant effects.

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

Not available

alkylethoxy mono and diphosphate
esters

68130-47-2

12. ECOLOGICAL INFORMATION

Ecotoxicological information:

Not available

Other information:

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

TDG classification:

FLAMMABLE LIQUID, TOXIC, N.O.S. (METHANOL); Class 3 (6.1);
UN 1992; PG III

15. REGULATORY INFORMATION

WHMIS:

B2

Flammable Liquid

D2A

Very Toxic Material Causing Other 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.

16. PREPARATION INFORMATION

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