

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: COOLING WATER COMPOUND A.I.R. Code: S754
Other name:
Distributed by:
Product use: cooling water treatment - compliant with Alberta Infrastructure Regulations
Date completed: April 16, 2014

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
methylene phosphonic acid, sodium salt	5 - 10	20592-85-2
sodium hexametaphosphate	1 - 5	68915-31-1

3. HAZARDS IDENTIFICATION

Harmful if swallowed. Causes respiratory tract, skin and eye irritation.

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. Drink 1-2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.
Eye contact: Flush with plenty of water for 15 minutes. Get medical attention if irritation persists.
Skin contact: Remove contaminated clothing and flush with plenty of water.

5. FIRE - FIGHTING MEASURES

Flash point (test method): Not applicable
Flammable limits (%): Non-flammable
 Lower: Not applicable
 Upper: Not applicable
Fire extinguishing substances: Use extinguishing media appropriate for surrounding fire.
Autoignition temperatures: Not applicable
Hazardous combustion products: May liberate oxides of carbon, nitrogen and phosphorus.
Explosion data:
 Sensitivity to mechanical impact: Not applicable
 Sensitivity to static discharge: Not applicable
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: Special ventilation requirements not normally necessary.
Respiratory protection: Not normally necessary.
Eye protection: Wear safety glasses.
Other protection: Wear protective clothing as necessary to prevent skin contact.

Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
methylene phosphonic acid, sodium salt	Not available		
sodium hexametaphosphate	Not available		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid	Solubility in water: 100%
Boiling point: 100°C	Vapour pressure: Not available
Vapour density: Not available	Evaporation rate: Not available
Freezing point: Not available	Odour threshold: Not available
Sp. Gravity: 1.106	pH: 9.0 - 10.0
Appearance & odour: clear, straw-coloured liquid with a characteristic odour	

10. STABILITY AND REACTIVITY

Stability: Stable
Conditions of instability: Not available
Incompatibility: () Water (X) Oxidizers (X) Acid () Base () Other
Conditions of reactivity: Not available
Hazardous decomposition products: Not available

11. TOXICOLOGICAL PROPERTIES

POTENTIAL ACUTE HEALTH EFFECTS

Inhalation: No known significant effects.
Ingestion: May be harmful if swallowed.
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: No known significant effects.
Ingestion: Not available
Eye contact: Not available
Skin contact: Not applicable
Skin absorption: Not applicable

Sensitization of product:	Not available
Carcinogenicity: IARC (1, 2A or 2B)	No known significant effects.
ACGIH: (A1, A2 or A3)	No known significant effects.
Reproductive toxicity:	No known significant effects.
Teratogenicity:	No known significant effects.
Mutagenicity:	No known significant effects.

Synergistic product: Not available

HAZARDOUS INGREDIENTS
methylene phosphonic acid, sodium salt

CAS NO.	TOXICITY DATA
20592-85-2	LD ₅₀ Oral (rat) >17'000 mg/kg LD ₅₀ Dermal (rabbit) >15'000 mg/kg
68915-31-1	LD ₅₀ Oral (rat) 6200 mg/kg

sodium hexametaphosphate

12. ECOLOGICAL INFORMATION

Ecotoxicological information: Expected to be fully biodegradable.

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: Not regulated for transport.

15. REGULATORY INFORMATION

WHMIS: D2B Toxic materials causing other chronic 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