

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

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

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

Product name: 15% Sulphamic Acid Descaler

Code: S769

Other name:

Distributed by:

Product use: multipurpose organic acid descaler

Date completed: September 15, 2015

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
sulphamic acid	10 - 30	5329-14-6

3. HAZARDS IDENTIFICATION

Corrosive liquid. Causes burns. Harmful if swallowed.

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 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): 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 release sulphur dioxide, sulphur trioxide, nitrogen oxides, and ammonia gas when heated in a fire.

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.

Neutralize with dilute alkali solution, such as 5% sodium carbonate.

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: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator
Eye protection: Wear safety glasses.
Other protection: Wear protective clothing as necessary to prevent skin contact.

Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
sulphamic acid	Not available		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid	Solubility in water: 100%
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: 1.074	pH: 100% = 0.5 - 1.0; 2% = 1.5 - 2.0
Appearance & odour:	clear, colorless solution with no odour

10. STABILITY AND REACTIVITY

Stability: Stable
Conditions of instability: Slowly hydrolyzes in storage. Shelf life < 6 months.
Incompatibility: () Water (X) Oxidizers () Acid (X) Base () Other
Conditions of reactivity: Reacts with metals.
Hazardous decomposition products: Ammonia gas and oxides of sulphur and nitrogen

11. TOXICOLOGICAL PROPERTIES

POTENTIAL ACUTE HEALTH EFFECTS

Inhalation: Corrosive to respiratory system.
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: Corrosive! Burns can occur if not promptly removed.
Skin absorption: Not applicable

POTENTIAL CHRONIC HEALTH EFFECTS:

Inhalation: Repeat or prolonged exposure may cause damage to lungs.
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) ACGIH: (A1, A2 or A3)	No known significant effects. 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

sulphamic acid

CAS NO.

5329-14-6

TOXICITY DATALD₅₀ Oral (rat) 3160 mg/kg

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:**

Corrosive Liquid, N.O.S. (sulphamic acid); Class 8; UN 1760; PG III

15. REGULATORY INFORMATION**WHMIS:**

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Corrosive material

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