

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: AUTO-BRIGHT

Code: A272

Other name:

Distributed by:

Product use:

Date completed: April 6, 2015

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
oxalic acid	5 - 10	144-62-7
triethanolamine 85%	1 - 5	102-71-6

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. 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 available

Flammable limits (%): Not available

Lower: Not available

Upper: Not available

Fire extinguishing substances: As for surrounding fire

Autoignition temperatures: Not available

Hazardous combustion products: May liberate carbon monoxide, carbon dioxide and formic acid.

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
oxalic acid	TLV - 1 mg/m ³		
triethanolamine	TLV-TWA - 5 mg/m ³		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid	Solubility in water: soluble
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: 1.024	pH: 1.0
Appearance & odour: clear, red liquid	

10. STABILITY AND REACTIVITY

Stability: Stable
Conditions of instability: keep away from heat, sparks and flame
Incompatibility: () Water (X) Oxidizers () Acid (X) Base (X) Other: silver and chlorites.
Conditions of reactivity: Not available
Hazardous decomposition products: Not available

11. TOXICOLOGICAL PROPERTIES

POTENTIAL ACUTE HEALTH EFFECTS

Inhalation: Irritating to respiratory system.
Ingestion: Harmful if swallowed. Causes burns to mouth, throat and stomach.
Eye contact: Causes burns.
Skin contact: Causes burns.
Skin absorption: Not applicable

POTENTIAL CHRONIC HEALTH EFFECTS:

Inhalation: Repeat or prolonged exposure may cause damage to lungs.
Ingestion: Not available
Eye contact: Repeated or prolonged contact with spray or mist may produce chronic eye irritation.
Skin contact: Repeated skin exposure may produce local skin destruction or dermatitis.
Skin absorption: Not applicable

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) 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	CAS NO.	TOXICITY DATA
oxalic acid	144-62-7	LD ₅₀ Oral (rat) 375 mg/kg LD _{LO} (Human) 71 mg/kg
triethanolamine	102-71-6	LD ₅₀ Oral (rat) 4190 mg/kg LD ₅₀ Dermal (rabbit) 2000 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. (oxalic acid), UN 1760, Class 8, PG III

15. REGULATORY INFORMATION

WHMIS: E Corrosive Liquid
D1B 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.

16. PREPARATION INFORMATION

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