

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: OXALIC ACID
Other name:
Distributed by:
Product use:
Date completed: April 01, 2014

Code: Y915

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
oxalic acid	60-100	144-62-7

3. HAZARDS IDENTIFICATION

Corrosive powder. Causes burns to skin, eyes, nose, throat and lungs.

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 milk or water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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: Not available

Explosion data:

Sensitivity to mechanical impact: Not applicable

Sensitivity to static discharge: Not applicable

Special firefighting procedures: As for surrounding fire.

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

Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
oxalic acid	TLV - 1 mg/m ³		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid	Solubility in water:	10%
Boiling point:	Not applicable	Vapour pressure:	Not applicable
Vapour density:	Not applicable	Evaporation rate:	Not applicable
Freezing point:	Not applicable	Odour threshold:	Not available
Sp. Gravity:	Not applicable	pH:	1% solution: 1.6
Appearance & odour:	white granular powder with no odour		

10. STABILITY AND REACTIVITY

Stability: Stable
Conditions of instability: Not available
Incompatibility: () Water (X) Oxidizers () Acid (X) Base (X) Other: silver and chlorites.
Conditions of reactivity: Not available
Hazardous decomposition products: May liberate carbon monoxide, carbon dioxide and toxic formic acid.

11. TOXICOLOGICAL PROPERTIES

POTENTIAL ACUTE HEALTH EFFECTS

Inhalation: Corrosive! Causes severe irritation of the nose, throat and respiratory tract.
Ingestion: Corrosive! This product causes severe burning and pain in the mouth, throat and abdomen. Ingestion may cause gastritis possibly progressing to necrosis or hemorrhage.
Eye contact: Corrosive to eyes. Causes severe burns.
Skin contact: May cause skin irritation. Prolonged skin contact may cause severe effect and burns. May cause skin sensitization.
Skin absorption: Not applicable

POTENTIAL CHRONIC HEALTH EFFECTS:

Inhalation: May cause severe respiratory tract irritation. Breathing high concentrations of dusts may result in respiratory failure and may be fatal.
Ingestion: More severe exposures result in muscular weakness, tremors, convulsions, dyspnea, cardiac failure and death.
Eye contact: May cause irritation. May cause destruction of the eye tissue.
Skin contact: May cause skin irritation. Prolonged skin contact may cause severe effect and burns. May cause skin sensitization.
Skin absorption: Not applicable

Irritancy of product: See WHMIS criteria
Sensitization of product: Not available

Carcinogenicity: IARC (1, 2A or 2B)
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.
No known significant effects.
Not available

HAZARDOUS INGREDIENTS
oxalic acid

CAS NO. TOXICITY DATA
144-62-7 LD₅₀ Oral (rat) 375 mg/kg
LD_{LO} Human - 71 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: Not regulated

15. REGULATORY INFORMATION

WHMIS: E Corrosive
D1B 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