## **MATERIAL SAFETY DATA SHEET**

## 1. IDENTIFICATION

OSTREM CHEMICAL CO. LTD. Phone: 780-440-1911 or 780-446-0177

2310 - 80 AVENUE In Case of Emergency Only:

EDMONTON AB T6P 1N2 phone CANUTEC at (613) 996-6666

Product name: KRYSTAL CLEAR DESCALER & SANITIZER Code: E433

Other name: Distributed by:

**Product use**: Acid Cleaner **Date completed**: December 3, 2015

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient%W/WCAS numberlactic acid (88%)15-4079-33-4alkyl dimethylbenzyl ammonium chloride7-1368424-85-1

#### 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):

Flammable limits (%):

Lower:

Upper:

Not applicable

Not applicable

Not applicable

**Fire extinguishing substances:** Use extinguishing media appropriate for surrounding fire.

Autoignition temperatures: Not applicable

**Hazardous combustion products:** May liberate carbon monoxide, carbon dioxide and oxides of sodium.

**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: 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

lactic acid (88%) Not available oxalic acid TLV - 1 mg/m³ alkyl dimethylbenzyl ammonium chloride Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Solubility in water: 100%

Boiling point:Not availableVapour pressure:Not availableVapour density:Not availableEvaporation rate:Not availableFreezing point:Not availableOdour threshold:Not available

**Sp. Gravity:** 1.159 **pH:** <1

Appearance & odour: Clear, red, odourless liquid

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions of instability: Not available

Incompatibility: () Water (X) Oxidizers () Acid (X) Base () Other

Conditions of reactivity: Reacts with metals Hazardous decomposition products: Not available

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:** Corrosive to eyes. Causes severe burns. **Skin contact:** Corrosive to skin. Causes severe burns.

Skin absorption: Not applicable

POTENTIAL CHRONIC HEALTH EFFECTS:

**Inhalation:** Repeat or prolonged exposure may cause damage to lungs.

Ingestion:Not availableEye contact:Not availableSkin contact:Not applicableSkin 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

lactic acid (88%) 79-33-4 LD<sub>50</sub> Oral (rabbit) 3730 mg/kg

LD<sub>50</sub> Dermal (rabbit) 7940 mg/kg

alkyl dimethylbenzyl ammonium chloride 68424-85-1 Not available

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, Acidic, Organic, N.O.S. (lactic acid); Class 8; UN

3265; PG III

15. REGULATORY INFORMATION

WHMIS: E 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