## **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: DL-50 MACHINE DISHWASH Code: J410

Other name: Calwash Powder CC-50
Distributed by: Caltech Tech Services
Product use: dishwash detergent

Date completed: 13-Jul-2011

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient%W/WCAS numberSodium Carbonate7-13497-19-8Sodium Metasilicate15-406834-92-0

Sodium Dichloroisocyanurate Dihydrate 1-5 51580-86-0 (providing 1.4% total available chlorine)

### 3. HAZARDS IDENTIFICATION

Eye irritant. Dust inhalation may irritate nose, throat and lungs.

### 4. FIRST AID MEASURES

**Inhalation:** Remove from exposure. Get fresh air.

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.

**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.

# **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:** No special ventilation requirements.

**Respiratory protection:** Not normally necessary. An N95 NIOSH respirator may be worn.

**Eye protection:** Not normally necessary. Safety glasses may be worn.

Other protection: Not normally necessary.

**Exposure limits:** 

Lower: ACGIH OSHA Other

Lower: Not available Sodium Metasilicate Not available Sodium Dichloroisocyanurate Dihydrate Not available

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid Solubility in water: 10%

**Boiling point:** Not applicable Vapour pressure: Not applicable Not applicable Vapour density: Not applicable **Evaporation rate:** Not applicable **Odour threshold:** Not available Freezing point: Sp. Gravity: Not applicable 1% sol. 11.4 pH: Appearance & odour: White granular powder with chlorine odour

## 10. STABILITY AND REACTIVITY

Stability:StableConditions of instability:Not available

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

Conditions of reactivity: Reacts with acids, aluminum, fluorine, lithium, strong mineral acids

Hazardous decomposition products: Not available

### 11. TOXICOLOGICAL PROPERTIES

POTENTIAL ACUTE HEALTH EFFECTS

**Inhalation:** Breathing in the dust from this material may cause irritation and coughing.

Ingestion: Swallowing small amounts of this material is not likely to cause harmful effects. Large

amounts may cause stomach and intestinal irritation, abdominal pain and vomiting.

Eye contact: May cause mild to severe irritation such as stinging, tearing, redness and swelling of the

eves.

**Skin contact:** May cause skin irritation.

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:** Prolonged contact may cause discomfort.

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.

DL-50 MACHINE DISHWASH

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

Lower: 497-19-8 LD50 Oral (rat) 4090 mg/kg

LC50 Inhalation (rat) 2300 mg/m3

Sodium Metasilicate 6834-92-0 LD50 Oral (rat) 847 mg/kg Sodium Dichloroisocyanurate Dihydrate 51580-86-0 LD50 Oral (rat) 735 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: D2B Other 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