

## 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:** COPPER SULPHATE

Code: G637

**Other name:**

**Distributed by:**

**Product use:**

**Date completed:** April 01, 2014

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
Copper Sulphate	98-100	7758-98-7

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### 3. HAZARDS IDENTIFICATION

Very toxic. Skin and eye irritant. Inhalation may irritate nose, throat and lungs. Harmful if swallowed.

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### 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.

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### 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 liberate carbon monoxide, carbon dioxide

**Explosion data:**

**Sensitivity to mechanical impact:** Not applicable

**Sensitivity to static discharge:** Not applicable

**Special firefighting procedures:** As for surrounding fire.

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### 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.

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### 7. HANDLING AND STORAGE

**Handling:** Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

COPPER SULPHATE

**Storage:** Keep out of reach of children. Keep container tightly closed. Store in a cool, dry area.

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## 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
Copper Sulphate	Not available		

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Solid	<b>Solubility in water:</b>	17%
<b>Boiling point:</b>	150C	<b>Vapour pressure:</b>	Not applicable
<b>Vapour density:</b>	Not applicable	<b>Evaporation rate:</b>	Not applicable
<b>Freezing point:</b>	Not applicable	<b>Odour threshold:</b>	Not available
<b>Sp. Gravity:</b>	2.286	<b>pH:</b>	4
<b>Appearance &amp; odour:</b>	blue granular powder with no odour		

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions of instability:** Not available

**Incompatibility:** ( ) Water (X) Oxidizers (X) Acid ( ) Base (X) Other: magnesium, hydroxylamine.

**Conditions of reactivity:** Not available

**Hazardous decomposition products:** oxides of sulphur; toxic fumes

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## 11. TOXICOLOGICAL PROPERTIES

### POTENTIAL ACUTE HEALTH EFFECTS

**Inhalation:** Irritating to respiratory system.

**Ingestion:** Harmful if swallowed.

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

**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

<b>Irritancy of product:</b>	See WHMIS criteria
<b>Sensitization of product:</b>	Not available
<b>Carcinogenicity:</b> IARC (1, 2A or 2B)	No known significant effects.
ACGIH: (A1, A2 or A3)	No known significant effects.
<b>Reproductive toxicity:</b>	No known significant effects.
<b>Teratogenicity:</b>	No known significant effects.
<b>Mutagenicity:</b>	No known significant effects.

**Synergistic product:** Not available

**HAZARDOUS INGREDIENTS**

Copper Sulphate

CAS NO.

7758-98-7

**TOXICITY DATA**

LD<sub>50</sub> Dermal (rabbit) 1000 mg/kg

LD<sub>50</sub> Oral (rat) 300 mg/kg

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**12. ECOLOGICAL INFORMATION**

**Ecotoxicological information:** Not available

**Other information:**

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**13. DISPOSAL CONSIDERATIONS**

**Waste disposal:** Disposal of all waste must be done according to local, provincial and federal regulations.

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**14. TRANSPORT INFORMATION**

**TDG classification:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(CUPRIC SULPHATE) Class: 9; UN: 3077; PG: III; Marine Pollutant

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**15. REGULATORY INFORMATION**

**WHMIS:** D1B Toxic material  
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.

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**16. PREPARATION INFORMATION**

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