



GLENGARRY CHEMICALS LTD.

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MATERIAL SAFETY DATA SHEET

Emergency Telephone Numbers:

CANUTEC: 1-613-996-6666
POISON CONTROL CENTRE: 1-800-268-9017

W.H.M.I.S. CLASSIFICATION: D2B, E

SECTION I PRODUCT INFORMATION

Product Name : CT-3000
Product Use : Cooling Tower Treatment
Chemical Family : Mixture
Chemical Formula : Mixture

SECTION II HAZARDOUS INGREDIENTS

COMPONENTS	Wt / Wt %	LD ₅₀ Oral-rat	HAZARD	CAS NO.
Sodium Molybdate dihydrate	10 to 30	4233mg/Kg	Irritant	10102-40-6
Benzotriazole	0.1 to 1.0	560 mg/Kg	Toxic	95-14-7
Sulphuric Acid	0.1 to 1.0	2140 mg/Kg	Corrosive	7664-93-9

SECTION III PHYSICAL STATE

Appearance and Physical State : Clear straw coloured liquid
Odour : Mild characteristic Odour Boiling Point (°C) : ~ 100
Specific Gravity (water = 1) : 1.10 - 1.15 Freezing Point (°C) : ~ 0
Vapour Pressure (mm Hg) : Not Available % Volatile (by weight) : > 60 (as Water)
Vapour Density (air = 1) : Not Available pH Product : 1.0 to 3.0
Evaporation Rate : Not Available pH 1% Solution : 0
Solubility in Water : Miscible Coefficient of Water/Oil Distribution : Not Applicable

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flammability: Non-Flammable
Upper Explosive Limit : Not Applicable Lower Explosive Limit : Not Applicable
Flash Point : Not Applicable
Means of Extinction: Appropriate for surrounding materials.
Special Procedures : Self contained breathing apparatus and protective clothing should be worn in fighting all fires involving chemicals.

SECTION V HEALTH HAZARD DATA

A - EFFECTS OF ACUTE OVEREXPOSURE

EYES: Corrosive. Causes irritation, redness, and pain. May cause corneal damage and conjunctivitis.
SKIN: Corrosive. May cause irritation or burning of the skin.
INHALATION: Product is not volatile, however mists may be irritating.
INGESTION: Moderately toxic because of solubility of molybdates. Large doses may cause severe distress; cramping, vomiting, and hypertension.

B - EFFECTS OF CHRONIC OVEREXPOSURE

No specific information found. Molybdenum is rapidly excreted from the body. Persons exposed for long periods suffer from anemia.

SECTION VI EMERGENCY AND FIRST AID

- EYES:** Wash with copious amount of cold water for at least 20 minutes keeping eyelids open. If irritation persists, repeat flushing. Obtain medical attention immediately.
- SKIN:** Immediately wash the affected areas with plenty of water. If irritation, redness or burning sensation develops obtain medical advice.
- INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
- INGESTION:** Do not attempt to give anything by mouth to an unconscious person. If person is alert and not convulsing rinse mouth out and give 1-2 glasses of water to dilute material and seek medical attention immediately. Do not induce vomiting.

SECTION VII TOXICOLOGICAL DATA

- Exposure Limits:** Not Available
- Carcinogenicity:** The ingredients of this product are not classified as carcinogens by ACGIH or IARC, not regulated as carcinogen by OSHA, and not listed as carcinogen by NTP.
- Reproductive Effects:** No information is available.
- Mutagenic Effects:** No information is available.
- Teratogenic Effects:** No information is available.
- Sensitization:** No information is available.
- Routes of Entry:** Ingestion, Inhalation, Skin and eye absorption.

SECTION VIII SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Spilled Or Released:

Wear protective equipment. Contain the spill and soak up with an absorbent material. Collect for disposal.

Disposal Procedures:

Follow your local, provincial, and federal government chemical disposal regulations.

SECTION IX PROTECTION INFORMATION

- Engineering Controls:** Local Exhaust.
- Respiratory Protection:** Not normally required.
- Protective Clothing:** Chemical resistant Gloves, apron or impervious protective clothing.
- Eye Protection:** Chemical safety goggles.
- Other Protective Equipment:** Eye Wash Station and Safety Shower.

SECTION X REACTIVITY DATA

- Stability:** Stable.
- Conditions to Avoid:** Avoid strong alkali.
- Hazardous Polymerization:** Will Not Occur.
- Incompatibility to Other Substances:** Oxidizing agents, strong reducing agents and alkali. Acidic solution will release chlorine when mixed with bleach. Corrosive to aluminium, mild steel and many metals.
- Hazardous Combustion Products:** Thermal decomposition products are toxic and may include Phosphines, CO and oxides of sodium.

SECTION XI HANDLING AND STORAGE PRECAUTIONS

Use normal "good" industrial hygiene and housekeeping practices. Wear appropriate safety equipment when handling. Store away from incompatibles. Keep containers closed when not in use and store in a cool dry place .

SECTION XII FURTHER INFORMATION

TDG CLASSIFICATION:

Shipping Name: Corrosive Liquid N.O.S. (Sulphuric acid Solution)
UN Number: UN1760 **Class:** 8 **Packing Group:** III

Preparation Information:

Prepared By: Regulatory Department
Revision Date: 1-Oct-14 **Preparation Date:** 31-May-04

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