

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

GLENGARRY CT-3010 Product Name: Cooling Tower Treatment Product Use:

Supplier: Glengarry Solutions Phone: 416-757-1333 Address: 33 Melford Drive, Unit 5, Fax: 416-757-9793 1-800-268-9017

Scarborough, Ontario. M1B 2G6 **Poison Control Centre:**

SECTION 2: HAZARD IDENTIFICATION

GHS Classification:

Category 1: Corrosive to metals. Category 4: Acute toxicity, oral. Category 1B: Skin corrosion/irritation.

Category 1: Serious eye damage/eye irritation.

Signal Word: DANGER

Pictogram:



Hazard Statements:

H290: May be corrosive to metals.

H302: Harmful if swallowed.

H313: May be harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

Precautionary Statements:

Do not handle until all safety precautions have been read and understood.

P234: Keep only in original container.

P260: Do not breathe mist.

P264: Wash thoroughly after handling.

P280: Wear protective gloves/protective clothing/face protection.

Response Statements:

P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. DO NOT INDUCE VOMITING. Immediately call a

POISON CENTER/doctor.

P303+P361+P353+P310 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with

water. Immediately call a POISON CENTER/doctor.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for P304+P340+P310

breathing. Immediately call a POISON CENTER/doctor.

P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if

present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P363: Wash contaminated clothing before reuse.

Storage: P405: Store locked up.

Dispose of container according to all applicable regulations. Disposal:

CT-3010 Page 1 of 5

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	EC No.	CONCENTRATION
Sodium Molybdate dihydrate	10102-40-6		1 to 10
Diethylenetriamine penta(methylenephosphonic acid)	15827-60-8		1 to 10
Zinc sulfate	7446-20-0		1 to 10
Sodium Hydroxide	1310-73-2		1 to 10
Benzotriazole	95-14-7		1 to 10

SECTION 4: FIRST AID MEASURES

EYES: Wash with copious amounts of water for at least 20 minutes keeping eyelids open. If irritation persists,

repeat flushing. Get immediate medical attention.

SKIN: Immediately wash the affected areas with plenty of water. If irritation persists, obtain medical attention. **INHALATION:** Remove person to fresh air and keep comfortable for breathing. Seek medical attention immediately.

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 5: FIRE FIGHTING MEASURES

Flammability: Not flammable.

Suitable Extinguishing Media: Use extinguishing media suitable for surrounding materials.

Specific Hazards Arising from the Chemical: None known.

Special Protective Equipment and Precautions for Fire-fighters:

Self contained breathing apparatus and protective clothing should be worn in fighting all fires involving chemicals.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid contact with skin, eyes and inhalation of vapors.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and Materials for Containment and Cleaning Up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Dispose of according to local, provincial and federal regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Do not handle until all safety precautions have been read and understood. Use normal good industrial hygiene and safety practices. Use recommended safety equipment when handling. Wash thoroughly after handling.

Conditions for Safe Storage:

Avoid storage at high temperatures and protect from freezing. Store away from incompatibles. Keep containers closed when not in use. Store locked up.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

COMPONENTS	CAS NO.	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide	1310-73-2	2 mg/m ³ (ceiling)	2 mg/m ³ (ceiling)	10 mg/m³ (IDLH)

Remarks:

Only those substances with limit values have been listed.

Leaend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH [아니다] National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Appropriate Engineering Controls:

Ensure adequate ventilation, especially in confined areas.

Individual Protection Measures:

Eves: Chemical safety goggles/Faceshield.

Skin: Chemical resistant gloves and appropriate protective clothing.

Respiratory: Approved NIOSH respiratory protection if TLV/PEL is exceeded or if over exposure is likely.

Facilities storing or using this material should be equipped with emergency eyewash and a **Work Hygienic Practices:**

safety shower. Good personal hygiene practices should always be followed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid. Colour: Clear Amber. Odour: Slight Acrid Odour. **Odour Threshold:** No information available.

11.5 - 12.5 1.20 - 1.25 Specific Gravity (water = 1): Melting point/Freezing point: ~0 °C **Boiling point:** ~100°C Flammability: Not flammable.

Upper Explosive Limit: Not Applicable. **Lower Explosive Limit:** Not Applicable. Flash Point: Not Applicable. **Auto-ignition Temperature:** Not Applicable.

Decomposition Temperature: No information available. Viscosity: No information available. Vapour Pressure (mm Hg): No information available. Vapour Density (air = 1): No information available. **Evaporation Rate:** No information available.

Solubility in Water: Miscible.

Partition Coefficient n-Octanol/Water: No information available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Material is non reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: None known.

Contact with incompatible materials. **Conditions to Avoid:**

Oxidizing agents, strong reducing agents and strong acids. **Incompatible Materials:**

Thermal decomposition products are toxic and may include phosphines, CO, CO₂, **Hazardous Decomposition Products:**

oxides of nitrogen, molybdenum, zinc, sulphur, and other acrid fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Primary route of exposure: Eye contact, skin contact, ingestion and inhalation.

Causes severe burns with delayed tissue destruction. Causes redness and pain. Skin corrosion/irritation: Serious eye damage/irritation: Causes severe eye burns. Contact may cause ulceration of the conjunctiva and cornea.

Eye damage may be delayed. Causes redness and pain.

Respiratory or skin No information available. sensitization:

No information available. Germ cell mutagenicity:

THE INGREDIENTS OF LINS PRODUCT ARE NOT CLASSINED AS CAROLINGENS BY ACCULTOFIANCE, NOT Carcinogenicity:

regulated as carcinogen by OSHA, and not listed as carcinogen by NTP.

No information available. Reproductive toxicity: No information available. STOT-single exposure: STOT repeated exposure: No information available.

Page 3 of 5

Aspiration hazard: No information available.

Component Acute Toxicity Information

COMPONENT	CAS No.	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
Sodium Molybdate dihydrate	10102-40-6	3400 mg/Kg (rat)	>2000 mg/Kg (rat)	1768 mg/m ³ (rat) 4 h
Diethylenetriamine penta(methylenephosphonic acid)	15827-60-8	7,180 mg/kg	>7940 mg/Kg (rabbit)	Not available
Zinc sulfate	7446-20-0	2150 mg/kg	Not available	Not available
Sodium Hydroxide	12179-04-3	Not available	1350 mg/Kg (rabbit)	Not available
Benzotriazole	95-14-7	560 mg/Kg	Not available	Not available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility in soil: No information available.

Other adverse effects: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal of substance: Dispose of in accordance with national, state/provincial and regional regulations. **Container disposal:** Dispose of in accordance with national, state/provincial and regional regulations.

SECTION 14: TRANSPORT INFORMATION

T.D.G./D.O.T. Classification:

Shipping Name: CORROSIVE LIQUID N.O.S. (Sodium Hydroxide Solution)

UN Number: 1760 Class: 8 Packing Group: III

SECTION 15: REGULATORY INFORMATION

WHMIS Classification:



D2B - Toxic Material Causing Other Toxic Effects



E - Corrosive Material

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulation (HPR), Hazard Communication Rule (2012), Regulation (EC) No 1907/2006

SECTION 16: OTHER INFORMATION

Preparation Information:

Latest Revision Date: 23-Apr-2019 Issue Date: 28-Mar-2018

Version No. 1.01

Revision Notes: This document has been updated to comply with the Globally Harmonized System of Classification

and Labeling of Chemicals (GHS).

Prepared By: Regulatory Affairs.

CT-3010 Page 4 of 5

The information supplied above is presented in good faith and has been derived from sources believed to be reliable. However, no warranty, expressed or implied, is extended regarding its accuracy or the results to be obtained from its use. Products supplied by our company are sold under the condition that liability for any personal injury or damage whatsoever to any property real or personal arising from the handling or use will, in all cases, remain with the handler or user.

CT-3010 Page 5 of 5