

SECTION 1 : IDENTIFICATION

Product Name: GLENGARRY CS-1000

Product Use: Aluminium Corrosion Inhibitor Supplement

Supplier: Glengarry Solutions

Address: 33 Melford Drive, Unit 6,
Scarborough, Ontario. M1B 2G6

Phone: 416-737-1183

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POISON CONTROL CENTRE: 1-800-268-9017

SECTION 2 : HAZARD IDENTIFICATION

GHS Classification:

- Category 1: Serious eye damage/eye irritation.
- Category 1: Corrosive to metals.
- Category 1B: Skin corrosion/irritation.
- Category 3: Specific target organ toxicity (respiratory System).
- Category 5: Acute toxicity, oral.

Signal Word: **WARNING**

Pictogram:



Hazard Statements:

- H290: May be corrosive to metals.
- H303: May be harmful if swallowed.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.
- H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:

- P202: 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 IF SWALLOWED: Rinse mouth. DO NOT INDUCE VOMITING.
- P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
- P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- 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.
- P332+313 If skin irritation occurs: Get medical advice/attention.
- P337+313 If eye irritation persists: Get medical advice/attention.
- P314: Get medical advice/attention if you feel unwell.
- P363: Wash contaminated clothing before reuse.

Storage: P405: Store locked up.

Disposal: P501: Dispose of container according to all applicable regulations.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	EC No.	CONCENTRATION (wt/wt)
Sodium silicate	1344-09-8		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.

Most important symptoms and effects, both acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause redness and pain.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation.

General Information

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the materials involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

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, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and Materials for Containment and Cleaning Up:

Spillage may be slippery use caution. 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. Avoid contact with eyes, skin, and clothing. Avoid generation of mist. 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
Sodium silicate	1344-09-8	Not Available	Not Available	Not Available

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The 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:

Eyes: 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.

Work Hygienic Practices: Facilities storing or using this material should be equipped with emergency eyewash, and a safety shower. Good personal hygiene practices should always be followed.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid.
Colour:	Clear to hazy white.
Odour :	Odourless.
Odour Threshold:	No information available.
pH:	11.5 - 12.5
Specific Gravity (water = 1) :	1.10 - 1.15
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:	Not reactive under normal conditions.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Contact with incompatible materials.
Incompatible Materials:	Strong alkali may react violently with strong mineral acids, and may produce hydrogen in contact with zinc, aluminium, tin and their alloys.
Hazardous Decomposition Products:	None known.

SECTION 11 : TOXICOLOGICAL INFORMATION

Primary Route of Exposure:	Eye contact, skin contact, ingestion and inhalation.
Skin Corrosion/Irritation:	Irritating to skin.
Serious eye damage/irritation:	Irritating to eyes.
Respiratory or skin sensitization:	Not sensitising.
Germ cell mutagenicity:	No evidence of genotoxicity. In vitro/in vivo negative.

Carcinogenicity: No structural alerts. IARC, NTP, OSHA, ACGIH do not list this product as known or suspected carcinogen.

Reproductive toxicity: No evidence of reproductive toxicity or developmental toxicity.

STOT-single exposure: Not classified.

STOT-repeated exposure: Not classified.

Aspiration hazard: No information available.

Component Acute Toxicity Information

COMPONENT	CAS No.	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
Sodium silicate	1344-09-8	1960 mg/Kg (rat)	4640 mg/Kg (rabbit)	Not available

SECTION 12 : ECOLOGICAL INFORMATION

COMPONENT	CAS No.	Freshwater Algae	Freshwater Fish	Water Flea
Sodium silicate	1344-09-8	Not Available	LC ₅₀ : 1108 mg/L, 96h (Brachydanio rerio)	EC ₅₀ : 1700 mg/L (48 hours) (Daphnia magna)

Toxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: Inorganic. Substance has no potential for bioaccumulation.

Mobility in soil: No information available.

Other adverse effects: Alkalinity in material will have local effect on ecosystems sensitive to changes in pH.

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: NOT REGULATED

UN Number: Not Applicable.

Class: Not Applicable.

Packing Group:

Not Applicable.

SECTION 15 : REGULATORY INFORMATION

WHMIS Classification:



Class D2: Material Causing Other Toxic Effects



Class E: Corrosive

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: 11-Aug-2017

Issue Date: 11-Aug-2017

Version No. 1.0

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.

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