

SECTION 1 : IDENTIFICATION

Product Name: MOLYTREAT 10
Product Use: Closed System Corrosion Inhibitor

Supplier: Glengarry Solutions **Phone:** 416-757-1333
Address: 33 Melford Drive, Unit 5, **Fax:** 416-757-9793
Scarborough, Ontario. M1B 2G6 **Poison Control Centre:** 1-800-268-9017

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.
Category 2: Carcinogenicity.

Signal Word: **WARNING**

Pictogram:

**Hazard Statements:**

H290: May be corrosive to metals.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage
H351: Suspected of causing cancer.
H361: Suspected of damaging fertility or the unborn child

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+P310 IF SWALLOWED: Rinse mouth. DO NOT INDUCE VOMITING. Immediately call a POISON CENTER/doctor.
P303+P361+P353+P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Immediately call a POISON CENTER/doctor.
P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for 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.
Disposal: P501: Dispose of container according to all applicable regulations.

Molytreat 10

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	EC No.	CONCENTRATION (wt/wt)
Sodium Nitrite	7632-00-0		10 to 30
Sodium Molybdate dihydrate	10102-40-6		1 to 10
Sodium Hydroxide	1310-73-2		0.1 to 1.0
Sodium Tolytriazole	64665-57-2		0.1 to 1.0

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. Symptoms may be delayed.

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

- 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:

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
Sodium Hydroxide	1310-73-2	2 mg/m ³ (ceiling)	2 mg/m ³ (ceiling)	10 mg/m ³ (IDLH)
Sodium tetraborate, pentahydrate	12179-04-3	2 mg/m ³ (TWA)	Not Available	5 mg/m ³ (TWA)

Remark: Polytreat 10

Page 2 of 4

Only those substances with limit values have been listed.

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 straw to yellow colour.
Odour :	Mild characteristic Odour
Odour Threshold:	No information available
pH:	11.0 - 12.0
Specific Gravity (water = 1) :	1.05 to 1.08
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:	Reacts with acids, oxidizing and reducing materials.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Contact with incompatible materials. Avoid contact with strong acids. Keep away from heat, sparks and open flame.
Incompatible Materials:	Acids, Amines, Reducing agents, Oxidizing agents, Strong reducing agents.
Hazardous Decomposition Products:	

SECTION 11 : TOXICOLOGICAL INFORMATION

Primary route of exposure:	Eye contact, skin contact, ingestion and inhalation.
Skin corrosion/irritation:	Causes severe burns with delayed tissue destruction. Causes redness and pain.
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 sensitization:	No information available.
Germ cell mutagenicity:	No information available.
Carcinogenicity:	Ingredients are not listed as carcinogen by ACGIH, or NTP. IARC list sodium nitrite as 2A - Group 2A: Probably carcinogenic to humans.
Reproductive toxicity:	No information available.
STOT-single exposure:	No information available.
STOT-repeated exposure:	No information available.
Aspiration hazard:	No information available.

Component Acute Toxicity Information

COMPONENT	CAS No.	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
Sodium Nitrite	7632-00-0	180 mg/Kg (rat)	Not available	Not available
Sodium Hydroxide	12179-04-3	Not available	1350 mg/Kg (Rabbit)	Not available
Sodium tetraborate, pentahydrate	1310-73-2	4500-5000 mg/Kg (Rat)	10000mg/Kg (Rabbit)	Not available

SECTION 12 : ECOLOGICAL INFORMATION

Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

COMPONENT	CAS No.	Freshwater Algae	Freshwater Fish	Water Flea
Sodium Nitrite	7632-00-0	Not Available	LC ₅₀ : 0.09-0.13 mg/L 96h (Oncorhynchus mykiss)	12.5 - 100 mg/L 48h

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: NITRITES, INORGANIC, AQUEOUS SOLUTION, N.O.S.. (Sodium Nitrite Solution)
UN Number: 3219 **Class:** 5.1 **Packing Group:** III

SECTION 15 : REGULATORY INFORMATION

WHMIS Classification:



Class C: Oxidizing Material



Class D1: Material Causing Immediate & Serious Toxic Effects



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: 23-Apr-2019

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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.

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