



# 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: C,D1B,D2B,E

### SECTION I PRODUCT INFORMATION

**Product Name** : MOLYTREAT 10  
**Product Use** : Closed System Corrosion Inhibitor  
**Chemical Family** : Mixture  
**Chemical Formula** : Mixture

### SECTION II HAZARDOUS INGREDIENTS

COMPONENTS	Wt / Wt %	LD <sub>50</sub> Oral-rat	HAZARD	CAS NO.
Sodium Nitrite	1 to 10	185 mg/Kg	Toxic and strong oxidizer	7632-00-0
Sodium Molybdate dihydrate	1 to 10	4000 mg/Kg	Irritant	10102-40-6
Tolytriazole	0.1 to 1.0	675mg/kg	Slightly Toxic	29385-43-1
Sodium Hydroxide	0.1 to 1.0	N/Av	Corrosive	1310-73-2

### SECTION III PHYSICAL STATE

**Appearance and Physical State** : Clear and Colourless Liquid  
**Odour** : Mild characteristic Odour **Boiling Point (°C)** : ~ 100  
**Specific Gravity (water = 1)** : 1.05 - 1.08 **Freezing Point (°C)** : ~ 0  
**Vapour Pressure (mm Hg)** : Not Available **% Volatile ( by weight )** : > 60 (as Water)  
**Vapour Density (air = 1)** : Not Available **pH Product** : 12.0 - 13.0  
**Evaporation Rate** : Not Available **pH 1% Solution** :  
**Solubility in Water** : Miscible **Coefficient of Water/Oil Distribution** : Not Available

### 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**: May cause marked irritation of the mouth, throat, esophagus, and stomach. Nitrite is used as a food additive at low levels (<100 ppm). Ingestion of large amounts can result in acute toxic effects with nausea, conversion of hemoglobin to methemoglobin, marked reduction in blood pressure, with collapse, coma, and possible death.

#### B - EFFECTS OF CHRONIC OVEREXPOSURE

Animal studies have shown nitrites to have reproductive effects and to be tumorigenic. Nitrites were also found to be mutagenic in bacterial and mammalian cells. Chronic exposures to corrosive materials may cause dermatitis.

## 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 and 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.
- 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 large quantities of water and induce vomiting by gagging the victim with a blunt object placed on the back of the tongue. Give fluids until vomitus is clear.

## SECTION VII TOXICOLOGICAL DATA

- Exposure Limits:** Not Available
- Carcinogenicity:** Ingredients are not listed by ACGIH, IARC or NTP. Under certain conditions nitrite compounds may react with secondary amines to form potentially carcinogenic
- Reproductive Effects:** See Section V(B)
- Mutagenic Effects:** See Section V(B)
- Teratogenic Effects:** See Section V(B)
- 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:** NIOSH/MSHA approved mist respirator, if misting conditions exists
- 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:** Prolong exposure to air will oxidize the sodium nitrite
- Hazardous Polymerization:** Will Not Occur

### Incompatibility to Other Substances:

Do not mix with strong acids or oxidizers. Avoid contact with combustible materials, ammonium compounds, reducing agents, thiocyanates, and thiosulphate.

### Hazardous Combustion Products:

Thermal decomposition products are toxic and may include oxides of nitrogen and sodium.

## SECTION XI HANDLING AND STORAGE PRECAUTIONS

Avoid storage at high temperatures and store away from strong acids and strong oxidizers. Keep containers closed when not in use. Use appropriate safety equipment, and exercise normal "good" industrial hygiene and housekeeping practices.

## SECTION XII FURTHER INFORMATION

### TDG CLASSIFICATION:

<b>Shipping Name:</b>	Corrosive Liquid N.O.S. ( Sodium Hydroxide Solution)		
<b>P.I.N.</b>	UN1760	<b>Class:</b>	8 (9.2)
<b>Packing Group:</b>	III		

### Preparation Information:

**Prepared By:** Regulatory Department

**Revision Date:** 07-Oct-05

**Preparation Date:** 07-Mar-01

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