

# MATERIAL SAFETY DATA SHEET



## LANXESS Corporation

Product Safety & Regulatory Affairs  
111 RIDC Park West Drive  
Pittsburgh, PA 15275-1112  
USA

## TRANSPORTATION EMERGENCY

CALL CHEMTREC: (800) 424-9300  
INTERNATIONAL: (703) 527-3887

## NON-TRANSPORTATION

LANXESS Emergency Phone: (800) 410-3063  
LANXESS Information Phone: (800) LANXESS

### 1. Product and Company Identification

**Product Name:** PREVENTOL CI 7-50  
**Material Number:** 56240989  
**Chemical Family:** Benzene/toulene derivative  
**Chemical Name:** Tolyltriazole, sodium salt, aqueous solution

### 2. Hazards Identification

#### Emergency Overview

**DANGER!** **Color:** Yellow to amber **Form:** Liquid **Odor:** Characteristic.  
Corrosive. Water runoff from fire fighting may be corrosive. Causes respiratory tract burns. Causes skin burns. Causes eye burns. Causes digestive tract burns. Harmful if swallowed.

#### Potential Health Effects

**Primary Routes of Entry:** Skin Contact, Eye Contact, Ingestion, Inhalation

**Medical Conditions Aggravated by Exposure:** Skin disorders, Respiratory disorders, Eye disorders

#### HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

##### Acute Inhalation

**For Component: 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt**

Corrosive with symptoms of coughing, burning, ulceration, and pain.

##### Acute Skin

**For Component: 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt**

Corrosive with symptoms of reddening, itching, swelling, burning and possible permanent damage.

##### Acute Eye

**For Component: 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt**

Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.

#### **Acute Ingestion**

**For Component: 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt**

Corrosive to the digestive tract with symptoms of burning and ulceration. Moderately toxic by ingestion.

#### **General Effects of Exposure**

#### **Chronic Effects of Exposure**

**For Product: PREVENTOL CI 7-50**

No applicable information was found concerning any adverse chronic health effects from overexposure to this product.

#### **Carcinogenicity:**

No Carcinogenic substances as defined by IARC, NTP and/or OSHA.

### **3. Composition/Information on Ingredients**

#### **Hazardous Components**

##### **Weight %**

<=50%

##### **Components**

1H-Benzotriazole, 4(or 5)-methyl-,  
sodium salt

##### **CAS-No.**

64665-57-2

### **4. First Aid Measures**

#### **Eye Contact**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Call a physician immediately.

#### **Skin Contact**

Wash off immediately with plenty of water for at least 15 minutes. Immediately remove contaminated clothing and shoes. Call a physician immediately. Wash clothing and shoes before reuse.

#### **Inhalation**

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.

#### **Ingestion**

Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.

### **5. Fire-Fighting Measures**

**Suitable Extinguishing Media:** All extinguishing media are suitable.

#### **Special Fire Fighting Procedures**

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.

#### **Unusual Fire/Explosion Hazards**

Water runoff from fire fighting may be corrosive. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Tolytriazole has the potential to be thermally hazardous. In

measurements by Accelerating Rate Calorimetry (ARC) exothermic behavior exceeding 0.02 C/min may be observed at temperatures above 240 C for 50% aqueous solutions.

## 6. Accidental release measures

### Spill and Leak Procedures

Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal. Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems.

## 7. Handling and Storage

### Storage Temperature:

minimum: 0 °C (32 °F)

### Storage Period

24 Months

### Handling/Storage Precautions

Do not breathe vapours or spray mist. Do not get on skin or clothing. Do not get in eyes. Do not taste or swallow. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Protect from freezing.

### Further Info on Storage Conditions

When stored at temperatures below 32 F (0 C) some of the product may crystallize out. This can be dissolved again by heating the product to a maximum of 122 F (50 C).

## 8. Exposure Controls / Personal Protection

Country specific exposure limits have not been established or are not applicable

### Industrial Hygiene/Ventilation Measures

General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines.

### Respiratory Protection

A NIOSH approved air purifying respirator with organic vapor cartridges and particulate prefilter can be used to minimize exposure.

### Hand Protection

Permeation resistant gloves., Polychloroprene gloves., Polyvinyl chloride (PVC/vinyl) gloves.

### Eye Protection

splash proof goggles., face-shield.

### Skin and body protection

Permeation resistant clothing and foot protection.

### Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate

and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

## 9. Physical and chemical properties

<b>Form:</b>	Liquid
<b>Color:</b>	Yellow to amber
<b>Odor:</b>	Characteristic
<b>pH:</b>	11.5 - 12
<b>Boiling Point/Range:</b>	Approximately 13.5 @ 20 °C (68 °F) Approximately 106 °C (222.8 °F) 108 °C (226.4 °F)
<b>Flash Point:</b>	106 °C (222.8 °F)
<b>Vapor Pressure:</b>	0.04 mmHg @ 20 °C (68 °F) Approximately 25 mbar @ 20 °C (68 °F)
<b>Density:</b>	Approximately 1.18 g/cm <sup>3</sup> @ 20 °C (68 °F)
<b>Specific Gravity:</b>	1.19 @ 24 °C (75.2 °F)
<b>Solubility in Water:</b>	Miscible Miscible
<b>Autoignition Temperature:</b>	500 °C (932 °F) > 500 °C (> 932 °F)
<b>Decomposition Temperature:</b>	Not established
<b>VOC Content:</b>	50 % Calculated value
<b>Viscosity, Dynamic:</b>	38 mPa.s @ 25 °C (77 °F) approximately 38 mPa.s @ 25 °C (77 °F)
<b>Bulk Density:</b>	Not Established

## 10. Stability and Reactivity

### Hazardous Reactions

Hazardous polymerization does not occur.

### Stability

Stable

### Hazardous decomposition products

By Fire and Thermal Decomposition: Carbon oxides, nitrogen oxides (NOx), other potentially toxic fumes

## 11. Toxicological Information

### Toxicity Data for 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt

#### Acute Oral Toxicity

LD50: 735 mg/kg (Rat, Female)

LD50: 930 mg/kg (Rat, male)

LD50: 1,980 mg/kg (Rat)

#### Acute dermal toxicity

LD50: > 2,000 mg/kg (rabbit)

#### Skin Irritation

rabbit, Exposure Time: 2 hrs, Corrosive

**Eye Irritation**  
rabbit, Corrosive

## 12. Ecological Information

### Ecological Data for 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt

#### **Biodegradation**

Zahn-Wellens Test, 70 %, Exposure time: 35 Days

#### **Biological Oxygen Demand (BOD)**

0 mg/g

#### **Chemical Oxygen Demand (COD)**

682 mg/g

#### **Acute and Prolonged Toxicity to Fish**

LC50: 122 mg/l (Zebra fish (Brachydanio rerio), 96 hrs)

LC50: > 173 mg/l (Bluegill (Lepomis macrochirus), 96 hrs)

LC50: 25 mg/l (Rainbow trout (Salmo gairdneri), 96 hrs)

#### **Acute Toxicity to Aquatic Invertebrates**

EC50: 280 mg/l (Water flea (Daphnia magna), 48 h)

#### **Toxicity to Aquatic Plants**

EC50: 26.2 mg/l, (Green algae (Selenastrum capricornutum), 96 h)

#### **Toxicity to Microorganisms**

EC0: 500 mg/l, (Pseudomonas putida)

## 13. Disposal considerations

#### **Waste Disposal Method**

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

#### **Empty Container Precautions**

Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

## 14. Transportation information

#### **Land transport (DOT)**

**Proper Shipping Name:** Caustic alkali liquids, n.o.s. (contains Tolyltriazole, sodium salt)

**Hazard Class or Division:** 8

**UN/NA Number:** UN1719

**Packaging Group:** II

**Hazard Label(s):** Corrosive

#### **Sea transport (IMDG)**

**Proper Shipping Name:** CAUSTIC ALKALI LIQUID, N.O.S. (contains Tolyltriazole,

**Hazard Class or Division:** sodium salt)  
8  
**UN-No:** UN1719  
**Packaging Group:** II  
**Hazard Label(s):** Corrosive

**Air transport (ICAO/IATA)**

**Proper Shipping Name:** Caustic alkali liquid, n.o.s. (contains Tolyltriazole, sodium salt)  
**Hazard Class or Division:** 8  
**UN-No:** UN1719  
**Packaging Group:** II  
**Hazard Label(s):** Corrosive

**15. Regulatory Information**

**United States Federal Regulations**

**OSHA Hazcom Standard Rating:** Hazardous

**US. Toxic Substances Control Act:** Listed on the TSCA Inventory.

**US. EPA CERCLA Hazardous Substances (40 CFR 302):**

**Components**

None

**SARA Section 311/312 Hazard Categories:**

Acute Health Hazard

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III  
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):**

**Components**

None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III  
Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:**

**Components**

None

**US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes  
and Appendix VIII Hazardous Constituents (40 CFR 261):**

When discarded in its purchased form, this product meets the criteria of corrosivity, and should be managed as a hazardous waste (EPA Hazardous Waste Number D002). (40 CFR 261.20-24)

**State Right-To-Know Information**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:**

**Weight %**

>=50%

**Components**

Water

**CAS-No.**

7732-18-5

<=50%

1H-Benzotriazole, 4(or 5)-methyl-,  
sodium salt

64665-57-2

**New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:**

**Weight %**

0.1 - 1%

**Components**

Sodium hydroxide

**CAS-No.**

1310-73-2

**California Prop. 65:**

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

**16. Other Information**

**NFPA 704M Rating**

<b>Health</b>	3
<b>Flammability</b>	1
<b>Reactivity</b>	0
<b>Other</b>	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

**HMIS Rating**

<b>Health</b>	3
<b>Flammability</b>	1
<b>Physical Hazard</b>	0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

\* = Chronic Health Hazard

LANXESS Corporation's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS Corporation as a customer service.

Contact Person: Product Safety Department  
Telephone: (800) LANXESS  
MSDS Number: 00000002816  
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