

## MATERIAL SAFETY DATA SHEET

**PRODUCT:** CS-90

**APPLICATION:** Cooling Tower Corrosion Inhibitor

Information On Physical Hazards, Health Hazards, Pel's and TLV's For Specific Product Ingredients As Required By The OSHA Hazard Communications Standard Are Listed. Refer In Section VI For Our Assessment Of The Health Hazards Of This Formulation.

### SECTION I

**Manufacturer's Name:** Klenzoid, Inc.  
**Address:** 912 Spring Mill Avenue  
Conshohocken, PA 19428

**Emergency Telephone Number:** (610) 825-9494

**Telephone Number for Information:** (610) 825-9494

**Date Prepared:** 10/2/13

### SECTION II - Hazardous Ingredients/Identify Information

**Sodium Tolytriazoles CAS # 64665-57-2 less than 1%**

### SECTION III - Physical/Chemical Characteristics

**Boiling Point:** 220°F  
**Specific Gravity (H<sub>2</sub>O=1):** 1.20  
**Vapor Pressure (mm Hg.):** Non Volatile  
**Vapor Density (Air = 1):** Non Volatile  
**Melting Point:** 25°F  
**Evaporation Rate (Butyl Acetate = 1):** Same as water  
**Solubility in Water:** 100%  
**Appearance and Odor:** A clear, non odorless liquid.

#### **SECTION IV - Fire and Explosion Hazard Data**

**Flash Point (Method Used): Not Applicable**  
**Special Fire Fighting Procedures: Not Applicable**  
**Unusual Fire and Explosion Hazards: None**

#### **SECTION V - Reactivity Data**

**Stability:**  
**Stable: Yes**

**Incompatibility (Materials to Avoid): None Known**  
**Hazardous Decomposition or Byproducts: None Known**  
**Hazardous Polymerization: None Known**

#### **SECTION VI**

**Inhalation: None determined.**  
**Ingestion: Ingestion may cause nausea.**  
**Skin: Possible irritation of exposed tissues to individual sensitivity.**  
**Eyes: Contact with eyes may cause irritation.**

**Health Hazards (Acute and Chronic):**

**Carcinogenicity: No data**  
**NTP? No data**  
**IARC Monographs? No data**  
**OSHA Regulated? No**

**Emergency and First Aid Procedures:**

**If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing, rings, etc.**  
**If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Give large amounts of water, vinegar 1:4 or lemon juice. Follow with milk. Seek medical attention.**

#### **SECTION VII - Precautions for Safe Handling and Use**

**Steps to Be Taken in Case Material is Released or Spilled:**  
**Material can be flushed to a sanitary sewer.**  
**Waste Disposal Methods:**  
**Dispose of in accordance with Federal, State and local laws and regulations.**

## SECTION VIII

**Respiratory Protection (Specify Type):**

**Ventilation:**

**Local Exhaust: None Required**

**Special: None Required**

**Other: None Required**

**Protective Gloves: Yes**

**Eye Protection: Chemical safety goggles.**

**Other Protective Clothing or Equipment: None Required**

**Work/Hygienic Practices: Wash hands after handling.**

## SECTION IX - Toxicological Information

Toxicological information on this product or its components appear in this section when such data is available. Data is supplied by component supplier of materials use in the production of the blended product and consider the concentration of these materials in the blended product. Klenzoid Inc expressly denies any responsibility for the accuracy of this data.

**ORAL RAT LD50: 30530 MG/KG; Investigated as a Mutagen.**

### **CANCER LISTS**

<b>INGREDIENT</b>	<b>---NTP CARCINOGEN---</b>		<b>IARC CATEGORY</b>
	<b>KNOWN</b>	<b>ANTICIPATED</b>	
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Phosphoric Acid (7664-38-2)	NO	NO	NONE
Water (7732-18-5)	NO	NO	NONE

**Toxicity Irritation**

**Oral (rat) LD<sub>50</sub>: 100980/kg**

**Dermal (rabbit) LD<sub>50</sub>: 200000 mg/kg**

**Epidemiology: No information available.**

**Teratogenicity: No information available.**

**Reproductive Effects: No information available.**

**Neurotoxicity: No information available.**

**Eye Irritation (Rabbit): Cause eye irritation**

**Mutagenicity: No information available.**

**Skin Irritation (Rabbit): Corrosive**

### Environmental Toxicity

**96 hr. LC50 > 100 mg/L (Rainbow trout & Medina, Inland silverside) – Practically non toxic [FMC 189-1090 & 1091]**

**96 hr. LC50 > 100 mg/L (Mysid shrimp) – Practically non-toxic [FMC 189-1089]**

**48 hr. EC50 > 100 mg/L – Practically non-toxic (Daphnia Magna) [FMC 189-1092]**

## **Environmental Fate**

**ICL Performance Products LP has not conducted biodegradation studies with this product since when dissolved/hydrolyzed in water it yields completely mineralized materials.**

**This Document Is Provided To Supply All The Information Necessary To Comply With OSHA Hazard Communications Regulations. And Right-To-Know Requirements. While The Information And Recommendations Set Forth Herein Are Believed To Be Accurate As OF The Date Hereof. Klenzoid Makes No Warranty With Respect Thereto And Disclaims All Liability From Reliance Thereon.**