

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29CFR1910.1200. Standard must be consulted for specific requirements.

**SECTION 1 - GENERAL INFORMATION**

Name	ZECOL PRODUCTS COMPANY		
Address	4635 WILLOW DRIVE	Emergency Telephone No.	(CHEM-TEL) 1-800-255-3924
City, State, and ZIP	MEDINA, MN 55340	Other Information Calls	(763) 478-3438
Signature of Person Responsible for Preparation (Optional)		Date Prepared	SEPT. 1, 2002 (Rev.)

**H**  
HEALTH

**F**  
FLAMMABILITY

**R**  
REACTIVITY

Style NC-L503R  
**PERSONAL PROTECTION**

**1**

**0**

**0**

**0**

**SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY**

Hazardous Component(s) [chemical & common name(s)]	OSHA PEL ppm	ACGIH TLV ppm	CAS NO.
Magnesium Chloride Hexahydrate	NE	NE	7791-16-6
Proprietary Corrosion Inhibitor	NE	NE	Proprietary

**SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS**

Boiling Point	244° F.	Specific Gravity (H <sub>2</sub> O=1)	1.30 @ 60°F
Vapor Density (Air=1)	NA	Vapor Pressure (mm Hg)	NA
Solubility in Water	Miscible.	Evaporation Rate (N-Butyl Acetate=1)	NA
Appearance and Odor	Clear, odorless liquid.		

**SECTION 4 - FIRE & EXPLOSION DATA**

Flash Point	NA - Aqueous	Method Used	Flammable Limits in Air % by Volume	LEL Lower	NA	UEL Upper	NA
Auto-Ignition Temperature	NA	Extinguisher Media	Water spray, carbon dioxide, dry chemical. Material is virtually non-flammable.				
Special Fire Fighting Procedure	This product is virtually non-flammable; however, in the event of a surrounding fire, firefighters should wear full protective equipment and use normal firefighting procedures.						

Unusual Fire and Explosion Hazards: None

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

**SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA) INCREDIBLE ORANGE ANTI-ICE (cont.)**

Stability  Unstable Conditions  
 Stable to Avoid None.

Incompatibility (Materials to Avoid) Mildly corrosive to metals over time (<0.05 inches/year in carbon steel). Keep away from strong acids.

Hazardous Decomposition Products If evaporated to dryness and heated to a minimum of 500°C, HCl vapors could be liberated.

Hazardous Polymerization  May Occur Conditions  
 Will Not Occur to Avoid None.

**SECTION 6 - HEALTH HAZARDS**

1. Acute Irritant to skin/eyes. 2. Chronic Not applicable.

Signs and Symptoms of Exposure May be mildly irritating to skin and eyes on contact, similar to a solution of common table salt. May also be irritating to the respiratory tract.

Medical Conditions Generally Aggravated by Exposure None known. There are no known carcinogenic, reproductive, teratogenicity or mutagenicity effects caused by this product.

Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	I.A.R.C. Monographs	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	OSHA	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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## Emergency and First Aid Procedures

## ROUTES OF ENTRY

1. Inhalation In the unlikely event a person is overcome by high airborne mist, remove to fresh air immediately. If breathing stopped, give artificial respiration. Keep warm and at rest. GET MEDICAL ATTENTION.
2. Eyes Rinse eyes immediately with large amounts of water for at least 15 minutes, occasionally lifting eyelids. GET MEDICAL ATTENTION.
3. Skin Wash exposed area twice with soap and water. The exposed area should be examined by medical personnel if irritation or pain persists after the area has been washed.
4. Ingestion If large quantity of material is ingested: if conscious induce vomiting. Give oxygen if respiration is shallow. GET MEDICAL ATTENTION. Never give anything by mouth to an unconscious person.

**SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES**

Precautions to be Taken in Handling and Storage Protect containers against physical damage. Wear protective equipment as necessary when performing maintenance on contaminated equipment. Store in dry, well-ventilated area. Keep away from strong acids to prevent release of HCl vapor.

Other Precautions Indoor operations generating airborne mist should be conducted in well-ventilated conditions and local exhaust provided. For outdoor operations generating airborne mist, workers should position themselves upwind of the operation to avoid exposure.

Steps to be Taken in Case Material is Released or Spilled Small spills: use suitable absorbent material and collect for later disposal. Large spills: May require diking to contain spill. Material can then be collected (e.g. suction) for reuse or disposal. After collection of material, flush area with water.

Waste Disposal Methods (Consult federal, state, and local regulations) Disposal must be made in accordance with local regulations for non-toxic, non-hazardous waste.

**SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES**

Respiratory Protection (Specify Type) In the unlikely event of significant airborne mist use an NIOSH/MSNA-approved dust/mist respirator.

Ventilation Local exhaust for indoor operations generating airborne mist.

Protective Gloves Impervious gloves.

Other Protective Clothing or Equipment Safety glasses or chemical goggles and boots are recommended.

Work/Hygienic Practices Contact lenses should not be worn when handling this material. Do not smoke or eat in areas where material is handled. Wash hands thoroughly before eating or smoking.