Material Safety Data Sheet – ZINC CHLORIDE

SECTION I PRODUCT IDENTIFICATION

Manufacturers Address: 916 West Lathrop Avenue
Savannah, Georgia 31415

Information Phone: (912) 443-6702
Date Prepared: 12-April 2010
Preparer: F. Spaeth

Synonym: Zinc Dichloride, Zinc Butter
Chemical Family: Inorganic Salt

NFPA Rating
0- Minimal 1-Slight 2-Moderate 3-Severe 4-Extreme

SECTION II HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS Number</th>
<th>%WT</th>
<th>STEL</th>
<th>TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Chloride</td>
<td>7646-85-7</td>
<td>100</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
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</tbody>
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SECTION III PHYSICAL and CHEMICAL PROPERTIES

- Boiling Point: >1200 °F
- Vapor Pressure: No Data
- Solubility In Water: Soluble
- Appearance/Odor: White odorless crystals

SECTION IV FIRE FIGHTING MEASURES

- Flash Point: None.
- Extinguishing Media: Use any agent suitable for surrounding fire conditions and equipment.
- Fire Fighting Procedures: Wear self-contained breathing apparatus (SCBA) operated in pressure demand mode and structural firefighter's protective clothing.
- Fire and Explosion Hazards: None known or expected.

SECTION V STABILITY AND REACTIVITY

- Stability: Stable under normal use conditions.
- Conditions to Avoid: Avoid excessive heat, or open flames and moisture.
- Incompatibility: In the presence of water, or acid, this product and solutions thereof may release toxic and hazardous fumes of sulfur oxides.
- Hazardous Decomposition Products: May release Chlorine and Zinc Oxide upon combustion.
- Hazardous Polymerization: Will not occur.
- Unusual Explosion conditions: Potassium mixed with Zinc Oxide produces a strong explosion on impact.

SECTION VI STORAGE AND HANDLING

- Precautions To Be Taken In Handling and Storage: Avoid skin and eye contact with product. Do not breath dust or vapors. Avoid contact with water. Always store in tightly sealed, and properly labeled original container. Store in a cool, dry well ventilated area. Segregate from oxidizers and metals.
- Other Precautions: Follow Label Instructions and Precautions. Do not store above 77 °F.
SECTION VII · HEALTH AND FIRST AID

Skin: Contact can be very irritating. Prolonged contact can result in inflammation and blistering.
Eyes: Dust in eyes can be very irritating. Prolonged contact can result in tissue damage or blindness.
Inhalation: High dust concentrations can be very irritating and potentially harmful.
Ingestion: Not a normal route of entry. However, can be harmful or fatal if swallowed.

FIRST AID PROCEDURES:

Eyes: Remove contacts if present. Flush with large amounts of cool running water for at least 15 minutes with eyelids forced open. Get immediate medical attention.
Skin: Remove contaminated clothing. Wash exposed skin with soap and water. Get immediate medical attention.
Inhalation: For excessive inhalation remove to fresh air. If recovery is not rapid give oxygen and seek medical attention.
Ingestion: DO NOT induce vomiting. Seek immediate medical attention.

SECTION VIII · EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Use eye protection when dispensing. Goggles or full-face shield recommended.
Respiratory Protection: Where exposure limits are exceeded and sustained use a NIOSH approved respirator.
Confined areas, use self-contained breathing apparatus.
Ventilation: Use process enclosures, strong local exhaust ventilation to keep airborne levels below exposure limits.
Protective Gloves: Use approved gloves when handling this material.
Other Equipment: Protective clothing depends on potential exposure conditions and may include boots, suits or apron.

SECTION IX · ACCIDENTAL RELEASE MEASURES

Small Spill: Stop source of spill. Salvage and recycle as much material as possible. Use appropriate tools to pick up dry material and collect into suitable container.
Large Spill: Corrosive solid. Plug leak at the spill. Dike spill area to contain spill. Avoid contact with water. Use appropriate tools to pick up dry material and collect into suitable container. Avoid contaminating ground and surface water.

SECTION X · DISPOSAL CONSIDERATIONS

DO NOT flush to drain. Dispose in accordance with all applicable federal, state and local regulations.

SECTION XI · TRANSPORTAION

U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):
Proper Shipping Name: Zinc Chloride, Anhydrous
Hazard Class: 8
UN Number: 2331
Packaging Group: III

SECTION XII · ECOLOGICAL

Ecotoxicological Information: No data available from any reliable source. Biodegradability does not apply to inorganic substances.
SECTION XIII TOXICOLOGY

Carcinogenicity: Not IARC, NTP or OSHA listed as a carcinogenic.
Mutagenicity: Theoretical mutagenic effects possible in humans.
Reproductive: May produce reproductive effects in humans based on animal studies only.
Sensitization: Persons with pre-existing skin disorders or eye problems may be more susceptible to this product.

SECTION XIV REGULATORY

RMP/PSM: No available documentation found.
CERCLA-RQ: 1,000 pounds
SARA 311/312: Listed Acute and Chronic Health Hazard.
SARA 313: Regulated; Zinc compound.
FIFRA: No documented information found.
RCRA-CODE: It is the responsibility of the user to determine if the material is a RCRA hazardous waste at the time of disposal.
TSCA 8(b): Listed

SECTION XV OTHER INFORMATION

NOTICE: The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.