



American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: www.aicma.com Email: info@aicma.com

MATERIAL SAFETY DATA SHEET

ZINC CHLORIDE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: Zinc Dichloride, Butter of Zinc

CAS #: 7646-85-7

DOT Hazard Class: UN 2331, Class 8, PG III, Corrosive

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Zinc Chloride 99.5% min.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Odorless white crystalline granules that is a corrosive. Will cause burns and harmful if swallowed or inhaled.

POTENTIAL HEALTH EFFECTS:

Eyes and Skin: Can cause severe irritation or burns.

Inhalation: May cause headache, coughing, difficult breathing, chest pains, severe lung irritation.

Ingestion: Nausea, vomiting, stomach irritation, burns to mouth and throat.

CARCINOGENICITY: Not listed under OSHA, IARC, or NTP.

Target Organs: Respiratory system, lungs, eyes, skin, gastrointestinal tract, liver, kidneys.

SECTION 4 - FIRST AID MEASURES

Eyes: Immediately flush with water for at least 15 minutes.

Skin: Wash off with plenty of water. Remove contaminated clothing.

Inhalation: Remove to the fresh air. If not breathing give artificial respiration. If difficulty breathing give oxygen.

Ingestion: Do not induce vomiting. Give water, milk or milk of magnesia.

In All Of The Above: Seek medical attention, if symptoms persist.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not Flammable

Flammable Limits: Not Applicable

Extinguishing Media: Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

Unusual Fire Explosion Hazard: Closed containers might explode, extreme heat may cause product to decompose, producing toxic fumes.

Auto Ignition Temperature: Not Applicable

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Wear self contained breathing apparatus and full protective clothing.

Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area.

SKIN AND EYE PROTECTION:

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: As Zinc Chloride fume

TLV/TWA	1 mg/m ³
STEL	2 mg/m ³
PEL	1 mg/m ³

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 732 °C or 1349 °F

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): 4.7

Specific Gravity (H2O=1): 2.91

Bulk Density: Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: 290 °C or 554 °F

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Appreciable

pH: Not Applicable

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Chloride compounds and Zinc Oxide

KEEP AWAY FROM: Potassium, Cyanides and Sulfides.

SECTION 11 - TOXICOLOGICAL INFORMATION

Oral Rat LD₅₀ 350 mg/kg

Oral Mouse LD₅₀ 350 mg/kg

Intraperitoneal Mouse LD₅₀ 31 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Zinc Chloride, Anhydrous
UN 2331, Class 8, PG III, Corrosive

SECTION 15 - REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCE CONTROL ACT): This product is listed on the TSCA Inventory.

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Unlisted

Section 313 Toxic Chemicals: Listed as Zinc Compounds.

Section 311/312 Hazard Category: Immediate (acute)Health Hazard, Delayed (chronic).

SECTION 16 - OTHER INFORMATION

Reason for Issue: Changed Date

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