



COLUMBUS CHEMICAL INDUSTRIES INC.

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Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Zinc Chloride

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries

N4335 Temkin Rd

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

920-623-2140

Date Prepared

02-22-2006

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Table with 6 columns: Hazardous Components (Specific Chemical Identity, Common Name(s)), CAS #, OSHA PEL, ACGIH TLV, Other Limits Recommended, % (optional). Row 1: Zinc Chloride, 7646-85-7, 1 mg/m³ (fume), 1 mg/m³ (fume), 2 mg/m³ (fume), STEL.

Section III - Physical/Chemical Characteristics

Table with 4 columns: Property, Value, Property, Value. Row 1: Boiling Point, 732°C(1350°F), Specific Gravity (H₂O = 1), Not Available. Row 2: Vapor Pressure (mm Hg) @ 428°C, 1, Melting Point, 290 °C (554 °F). Row 3: Vapor Density (AIR = 1), 4.7, Evaporation Rate (Butyl Acetate = 1), Not available.

Solubility in Water

Soluble

Appearance and Odor

White, odorless solid.

Section IV Fire and Explosion Hazard Data

Table with 4 columns: Flash Point (Method Used), Flammable Limits, LEL, UEL. Row 1: Nonflammable, Not applicable, Not applicable, Not applicable.

Extinguishing Media

Use water spray, dry chemical, or carbon dioxide to extinguish supporting fire.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions.

**Section V Reactivity Data**

Stability	Unstable		Conditions to Avoid	Incompatibles, moisture.
	Stable	X		

**Incompatibility Materials to Avoid**

Acids and acidic materials, potassium.

**Hazardous Decomposition or Byproducts**

Hydrogen chloride, zinc oxide.

**Hazardous Polymerization****Conditions to Avoid**

	May Occur		Not available.
	Will Not Occur	X	

**Section VI Health Hazard Data**

Routes of Entry	Inhalation ?	Skin ?	Ingestion ?
	Yes	Yes	Yes

**Health Hazards (Acute and Chronic)**

Corrosive to skin, eyes and mucous membranes. SKIN: May cause irritation, burns. EYE: Causes eye irritation, burns.

INHALATION: May be harmful if inhaled. Material is corrosive to the mucous membranes and upper respiratory tract. INGESTION: May be harmful if swallowed.

Carcinogenicity	NTP	IARC Monographs	OSHA REGULATED?
	Not listed	Not listed	Not listed

**Signs and Symptoms of Exposure.**

Irritation to eyes, skin, mucous membranes and upper respiratory tract characterized by itching, swelling, redness, pain and chemical burns. Gastrointestinal discomfort and possible pain upon ingestion.

**Medical Conditions Generally Aggravated by Exposure**

Unknown to CCI.

**Emergency and First Aid Procedures** EYES /SKIN: Immediately flush with large amounts of water for at least 15 minutes.

Remove contaminated clothing. Assure adequate flushing of eyes by separating eyelids with fingers. INHALATION: remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. INGESTION:

**DO NOT** induce vomiting. Give 1-2 cupfuls of water or milk.

**Section VII Precautions for Safe Handling and Use****Steps to be Taken in Case Material is Released or Spilled**

Evacuate unprotected personnel from area. Wear self-contained breathing apparatus, rubber boots, heavy protective gloves and chemical safety goggles. Do not breath vapors. Sweep up, place in a plastic bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

**Waste Disposal Method** Dispose of material in accordance with all applicable Federal, state, and local regulations.

**Precautions to be Taken in Handling and Storing**

Store in a cool, dry, well-ventilated area in tightly-closed, plainly-labelled containers. Store in a resistant container. Protect against moisture, physical damage and light. Maintain adequate ventilation. Wash thoroughly after handling. Do not ingest or breathe dust. Protect exposed tissues. Hygroscopic.

**Other Precautions** Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Do not breathe dust.

**Section VII Control Measures**

**Respiratory Protection (Specify Type)** NIOSH / MSHA-approved respirator with dust/mist cartridge if necessary.

Ventilation	Local Exhaust	Recommended.	Special	Eyewash nearby.
	Mechanical (General)	Recommended.	Other	Safety shower nearby.

**Protective Gloves** Appropriate chemical-resistant gloves. **Eye Protection** Safety goggles.

**Other Protective Clothing or Equipment** Lab coat or apron, boots, dust-mask.

**Work /Hygienic Practices** Wear appropriate personal protective equipment. Wash thoroughly after handling. Do not breath vapors. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Wash contaminated clothing before reuse.

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