

Fisher Science Education
6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177
Emergency Number: (800) 255-3924

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Catalog Numbers: S25635A, S25635
Product Identity: Zinc Chloride, Crystal

Chemical Family: Not Applicable
Synonyms: Zinc butter, Zinc dichloride
Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291
Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 07/10/12
Revision Date:

Section 2 – Hazard Identification

Emergency Overview

Causes burns by exposure. Harmful if swallowed.

Appearance: White solid **Odor:** none

Target Organs: Skin, Respiratory system, Eyes, Gastrointestinal tract

Potential Health Effects/ Routes of Exposure:

Eyes: May cause irreversible eye injury. Contact with eyes may cause severe irritation, and possible eye burns.

Skin: Causes skin burns.

Ingestion: Harmful if swallowed. Causes burns.

Inhalation: Causes burns.

Chronic Effect / Carcinogenicity: None known

Aggravated Medical Conditions No information available

These chemicals are not considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Zinc chloride, CAS# 7646-85-7, >95%

Section 4 – First Aid

Eyes: Flush eyes with water for at least 15 minutes. Get medical aid immediately.

Skin: Flush with water for 15 minutes. Get medical aid immediately.

Ingestion: DO NOT induce vomiting. Get medical aid immediately. Call Poison Control immediately.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation. If victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.

Notes to Physician Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: Not Applicable **Autoignition Temperature** No information available.
Explosion Limits Upper No data available **Lower** No data available
Extinguishing Media: CO₂, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable Extinguishing Media: No information available
Fire & Explosion Hazards: No information available.
Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.
Hazardous Combustion Products: No information Available
Sensitivity to mechanical impact No information available.
Sensitivity to static discharge No information available.
Specific Hazards Arising from the Chemical: No information available..
NFPA Rating: (estimated) Health: 3; Flammable: 1; Reactivity: 1

Section 6 – Accidental Release Measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.
Methods for Containment and Clean Up Sweep up material and place in suitable container. Avoid generating dust. Provide ventilation. Avoid runoff into storm sewers and ditches which lead to waterways.

Section 7 – Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin, eyes, and clothing. Avoid dust generation and accumulation. Avoid breathing dust and fume. Remove contaminated clothing.
Storage: Keep container tightly closed in a cool, dry area. Corrosive area. Do not store in metal containers. Store protected from moisture.

Section 8 – Exposure Controls, Personal Protection

Zinc chloride, CAS# 7646-85-7, ACGIH TLV: 1 mg/m³ TWA, OSHA PEL: 1 mg/m³ TWA
Engineering Measures/ General Hygiene: Use adequate general or local exhaust. Ensure eyewash and safety showers are available.
Personal Protection Equipment: Skin Protection: Chemical resistant gloves.
Eye/Face Protection: Safety Glasses or goggles. **Respiratory Protection:** Use approved respirator if exposure limits are reached.

Section 9 – Physical and Chemical Properties

Appearance/Physical State: White solid	% Volatility: No Information Available
Odor: none	Specific Gravity: 2.91
Boiling Point: 732 C	Vapor Pressure: 1.3 mbar @ 428 °C
Melting Point: 293 C	Flash Point: Not Applicable
Vapor Density: Not Applicable	Coefficient of water/oil distribution: Not Available
Evaporation Rate: Not Applicable	Odor Threshold: Not Available
pH: 5 100 g/L aq.sol.	Decomposition Temperature: No information available
Flammability: No Information Available	Partition Coefficient n-octanol/water: No data
Solubility: No information available available	
Relative Density: No Information Available	Molecular Weight: 136.29

Section 10 – Stability and Reactivity

Chemical Stability: Under normal conditions product is stable.
Incompatible Materials: Strong oxidizing agents
Conditions to Avoid: Avoid dust, excess heat
Hazardous Decomposition Products: carbon monoxide, carbon dioxide, zinc oxides.
Hazardous Polymerization: Does not occur
Hazardous Reactions: None under normal conditions

Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2

LD50 orl-rat: 350 mg/kg; LC50 inhalation-rat: NA

Irritation: No Information Available

Toxicologically Synergistic: No Information Available

Chronic Exposure

Carcinogenicity No Information Available

Sensitization No information available.

Mutagenic Effects No Information Available.

Reproductive Effects No information available.

Developmental Effects (Immediate/Delayed) No information available.

Teratogenicity No information available.

Other Adverse Effects No information available.

Endocrine Disruptor Information No information available

Section 12 – Ecological Information

Ecotoxicity: No information Available

Persistence and Degradability: No Information Available

Mobility: No information Available

Bioaccumulation/ Accumulation: No Information Available

Section 13 – Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 – Transport Information

DOT – UN2331, Zinc Chloride, Anhydrous, 8, III

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: Not applicable

Canada DSL: Not applicable

TSCA: Not applicable

SARA Title III Section 313: Not applicable

RCRA Status: Not applicable

CERCLA Reportable Quantity: 1000 lb

WHMIS: E

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.