

MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals, Inc  
7 Mulliken Way  
Newburyport, MA 01950-4098 U.S.A.  
www.strem.com

Strem Customer Service (978) 499-1600  
CHEMTREC (Emergency Only) (800) 424-9300  
Poison Center (800) 562-8236

**Section 1: Product Identification**

Chemical Name: Zinc shot (99.99%)  
Product Number: 30-0080  
CAS Registry Number: 7440-66-6  
Formula: Zn  
EINECS Number: 231-175-3  
Chemical Family: metal or element  
Synonym: none

**Section 2: Composition and Information on Ingredients**

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	7440-66-6	100%	no data	no data

**Section 3: Hazards Identification**

Emergency Overview: Inhalation of zinc dust may produce metal fume fever or zinc shakes consisting of chills, fever, muscular pain, nausea, and vomiting.

Primary Routes of Exposure: Inhalation (of dust or fume)

Eye Contact: The dust may cause slight to mild irritation of the eyes.

Skin Contact: The dust may cause slight to mild irritation of the skin.

Inhalation: Hazard associated with inhalation of fine dust or fume. May be irritating to nasal cavity and respiratory tract.

Ingestion: Zinc dust gives a harsh metallic taste and may cause nausea and vomiting

Acute Health Affects: Dust may be irritating to skin, eyes and respiratory tract. Inhalation of zinc dust may cause chills and nausea.

Chronic Health Affects: No serious long-term chronic effects reported. Prolonged inhalation of dust may cause laryngitis. Prolonged ingestion may causes constipation.

NTP: No

IARC: No

OSHA: No

**SECTION 4: First Aid Measures**

Eye Exposure: (For dust) Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.

Skin Exposure: The material is in the form of metal shot. Skin exposure is not an issue.

Inhalation: (For dust) Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

Ingestion: Seek medical intention immediately. Keep victim calm. Give victim water (only if conscious). Induce vomiting only if directed by medical personnel.

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### SECTION 5: Fire Fighting Measures

Flash Point: not applicable  
Autoignition Temperature: not applicable  
Explosion Limits: not applicable  
Extinguishing Medium: None  
Special Fire Fighting Procedures: No special fire fighting procedures required for this material.  
Hazardous Combustion and Decomposition Products: none  
Unusual Fire or Explosion Hazards: Potentially combustible as fine dust. Dust may form explosive mixtures with air under some conditions.

### SECTION 6: Accidental Release Measures

Spill and Leak Procedures: Spills can simply be swept up.

### SECTION 7: Handling and Storage

Handling and Storage: No special storage or handling conditions required.

### SECTION 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.  
Skin Protection: Wear protective clothes and gloves. Consult glove manufacturer to determine the proper type of glove.  
Ventilation: If in the form of a fine dust, handle the material in an efficient fume hood.  
Respirator: If handling material in the form of a fine dust and ventilation is not available, a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.  
Ventilation: If in the form of a fine dust, handle the material in an efficient fume hood.  
Additional Protection: No additional protection required.

### SECTION 9: Physical and Chemical Properties

Color and Form: 2-14 mesh  
Molecular Weight: 65.38  
Melting Point: 419.58°  
Boiling Point: 907°C  
Vapor Pressure: 1mm (487 °C)  
Specific Gravity: 7.14  
Odor: none  
Solubility in Water: reacts with water

### SECTION 10: Stability and Reactivity

Stability: air and moisture stable  
Hazardous Polymerization: no hazardous polymerization  
Conditions to Avoid: Mixtures of fine dust with air in contact with an ignition source.  
Incompatibility: Mineral acids, halogens, oxidizers, sulfur, phosphorus, halogenated hydrocarbons, strong bases and ammonium nitrate  
Decomposition Products: none

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**SECTION 11: Toxicological Information**

RTECS Data: Administration onto the skin (human); Standard Draize test: 300 ug/3D(Intermittent). Inhalation (human);  
TCLo: 124 mg/m3/50M.  
Carcinogenic Effects: No data available  
Mutagenic Effects: No data available  
Tetratogenic Effects: No data available

**SECTION 12: Ecological Information**

Ecological Information: No information available.

**SECTION 13: Disposal Considerations**

Disposal: Dispose of according to local, state, and federal regulations.

**SECTION 14: Transportation**

Shipping Name (CFR): Non-hazardous  
Hazard Class (CFR): NA  
Additional Hazard Class (CFR): NA  
Packaging Group (CFR): NA  
UN ID Number (CFR): NA  
Shipping Name (IATA): Non-hazardous  
Hazard Class (IATA): NA  
Additional Hazard Class (IATA): NA  
Packaging Group (IATA): NA  
UN ID Number (IATA): NA

**SECTION 15: Regulatory Information**

TSCA: Listed in the TSCA inventory  
SARA (Title 313): Title compound listed as fume or dust  
Second Ingredient: none  
Third Ingredient: none

**SECTION 16: Other Information**

Disclaimer: The information herein is believed to be accurate and reliable as of the date compiled. However, Strem Chemicals, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information.  
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