

# Material Safety Data Sheet

## ZINC

Carolina Biological Supply Company

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Revised 10/28/99

Replaces (None)

Printed 9/01

### 1. Product Description

**Product Name:** Zinc  
**Product Code (s):** Various  
**Size:** Various  
**Chemical Name:** Zinc  
**CAS Number:** 7440-66-6  
**Formula:** Zn  
**Synonyms:** CI 77945  
**Distributor:** Carolina Biological Supply Company  
2700 York Road  
Burlington, NC 27215  
**Chemical Emergency Information:**  
800-227-1150 (8am-5pm [ET] M-F)  
**Chemtrec (Transportation Spill Response 24 hours):**  
800-424-9300

### 2. Composition/Information on Ingredients

**Principal Hazardous Components:** Zinc

**TLV and PEL units:**  
ACGIH-TLV: N/A  
OSHA-PEL: N/A

### 3. Hazardous Identification

**Emergency Overview:** May be harmful if inhaled or ingested.  
Avoid generating dust.

**Potential Health Effects:**

**Eyes:** May cause irritation

**Skin:** May cause irritation

**Ingestion:** May cause gastrointestinal discomfort

**Inhalation:** May cause irritation to respiratory tract

### 4. First Aid Measures

**Emergency and First Aid Procedures:**

**Eyes** - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

**Skin** - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

**Ingestion** - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

**Inhalation** - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

### 5. Firefighting Procedures

**Flash Point (Method Used):** N/A

**NFPA Rating:** Health: 0

Fire: 1

Reactivity: 0

**Extinguisher Media:** Use dry chemical, CO<sub>2</sub> or appropriate foam

**Flammable Limits in Air % by Volume:** N/A

**Autoignition Temperature:** N/A

**Special Firefighting Procedures:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus

**Unusual Fire and Explosion Hazards:** Finely divided powder presents an explosion hazard

### 6. Spill or Leak Procedures

**Steps to be Taken in Case Material is Released or Spilled:**

Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

### 7. Special Precautions

**Precautions to be Taken in Handling or Storing:** Avoid prolonged skin contact. Avoid breathing dust.

**Other Precautions:** Isolate in an area suitable for chemical storage

### 8. Special Protection Information

**Respiratory Protection (Specify Type):** None needed under normal conditions of use

**Ventilation:** Local Exhaust: Not required

Mechanical (General): Yes

Special: No

Other: No

**Protective Gloves:** Rubber, neoprene, PVC, or equivalent

**Eye Protection:** Splash proof chemical safety goggles should be worn at all times

**Other Protective Clothing or Equipment:** Lab coat, eye wash, and safety shower

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## ZINC (cont.)

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### 9. Physical Data

**Molecular Weight:** 65.39

**Melting Point:** 786 °F

**Boiling Point:** 1664 °F

**Vapor Pressure:** N/A

**Vapor Density (Air-1):** N/A

**Specific Gravity (H<sub>2</sub>O=1):** 7.14

**Percent Volatile by Volume:** 0

**Evaporation Rate (Ether=1):** N/A

**Solubility in Water:** Insoluble

**Appearance and Odor:** Odorless, white to brown metallic solid

### 10. Reactivity Data

**Stability:** Stable

**Conditions to Avoid:** Heat, incompatibles

**Incompatibility (Materials to Avoid):** Chlorinated rubber, magnesium, linseed oil

**Hazardous Decomposition Products:** Toxic fumes released when sublimed

**Hazardous Polymerization:** Will not occur

### 11. Toxicity Data

**Toxicity Data:** inh-hmn TCLo: 124 mg/m<sup>3</sup>

**Effects of Overexposure:**

Acute: See section 3

Chronic: No chronic effects data cited

**Conditions Aggravated by Overexposure:** Respiratory diseases, gastrointestinal disorders

**Target Organs:** Respiratory system, skin

**Primary Route(s) of Entry:** Inhalation, ingestion

### 12. Ecological Data

**EPA Waste Numbers:** N/A

### 13. Disposal Information

**Waste Disposal Methods:** Dispose in accordance with all applicable federal, state and local regulations

Always contact a permitted waste disposer (TSD) to assure compliance

### 14. Transport Information

**Description:** N/A

### 15. Regulatory Information

**EPA TSCA Status:** On TSCA Inventory

**Hazard Category for SARA Section 311/312 Reporting:** Acute Chronic

#### SARA Sec. 313

Product or Components	SARA EHS	Chemicals	CERCLA RCRA		
	Sec. 302 TPQ	Name List	Chemical Category	Sec. 103 RQ lbs.	Sec. 261.33
Zinc	No	Yes	No	1000	No

### 16. Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

#### Glossary

**ACGIH** American Conference of Governmental Industrial Hygienists

**CAS Number** Chemical Services Abstract Number

**CERCLA** Comprehensive Environmental Response, Compensation, and Liability Act

**DOT** U.S. Department of Transportation

**IARC** International Agency of Research on Cancer

**N/A** Not Available

**NTP** National Toxicology Program

**OSHA** Occupational Safety and Health Administration

**PEL** Permissible Exposure Limit

**ppm** parts per million

**RCRA** Resource Conservation and Recovery Act

**SARA** Superfund Amendments and Reauthorization Act

**TLV** Threshold Limit Value

**TSCA** Toxic Substances Control Act