

Material Safety Data Sheet



Zinc, Powder

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

CAROLINA
www.carolina.com

Section 1 - Product Description

Product Name: Zinc, Powder
Product Code(s): 89-9344, 89-9370
Size: 500g
Chemical Name: Zinc, Powder
CAS Number: 7440-66-6
Formula: Zn
Synonyms: spelter
Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: Harmful by inhalation and if swallowed. Irritating to eyes, respiratory system and skin. May form combustible dust concentrations in air. Reacts with water to generate flammable gas.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Zinc Powder (CAS# 7440-66-6) 97%, Zinc Oxide (CAS# 1314-13-2) 3%
TLV units: 10mg/m³ (ZnO dust)
PEL units: 15 mg/m³ (ZnO dust)

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Ingestion - If swallowed, seek medical advice immediately and show this container or label.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

NFPA Rating:

Health: 2

Fire: 1

Reactivity: 2

Extinguisher Media: Use dry chemical, CO₂ or appropriate foam.**Flammable Limits in Air % by Volume:** N/A N/A**Autoignition Temperature:** 460 °C (860 °F)**Special Firefighting Procedures:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.**Unusual Fire and Explosion Hazards:** Avoid Dusting. May become explosive when dispersed in air.

Reacts with some acids and bases to form hydrogen gas.

Section 6 - Spill or Leak Procedures

Steps to Take 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.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution. Suitable for any general chemical storage.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.**Ventilation:**

Local Exhaust: Yes

Mechanical(General): Yes

Special: No

Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.**Eye Protection:** Splash proof chemical safety goggles should be worn.**Other Protective Clothing or Equipment:** Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 65.4**Boiling Point:** 907 °C (1665 °F)**Vapor Density(Air=1):** N/A**Percent Volatile by Volume:** 0%**Solubility in Water:** Practically Insoluble**Melting Point:** 419 °C (786 °F)**Vapor Pressure:** N/A**Specific Gravity (H₂O=1):** 7.133**Evaporation Rate (BuAc=1):** N/A**Appearance and Odor:** Bluish white metal, odorless.

Section 10 - Reactivity Data

Stability: Stable**Conditions to Avoid:** Heat and sources of ignition.

Water; Product is water reactive.

Incompatibility (Materials to Avoid): Water-reactive Material, Sulfur, Halogens, Oxidizers, Acids, Alkalis, Organic Halogens,**Hazardous Decomposition Products:** Hydrogen Gas, Zinc Oxide, Metal Fumes,**Hazardous Polymerization:** Will not occur

Section 11 - Toxicity Data

Toxicity Data: Irritation, Skin, Human: 300ug/3D-I, mild**Effects of Overexposure:**

Acute: See Section 2

Chronic: To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly evaluated.

Conditions Aggravated by Overexposure: Respiratory disorders, Gastrointestinal,

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

Primary Route(s) of Entry: Inhalation, ingestion, eye or skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: Not Listed

Section 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.

Section 14 - Transport Information

DOT Proper Shipping Name: Zinc Powder

Hazard Class = 4.3 (4.2)

PG = II

UN1436

Section 15 - Regulatory Information

EPA TSCA Status: No

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:

no

Chemical Category:

no

CERCLA Section 103 RQ(lb.): 1000 kg

RCRA Section 261.33: no

Section 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