



# Super Conductor Materials, Inc.

391 Spook Rock Industrial Park, Suffern, NY 10901 · 845.368.0240 · Fax 845.368.0250 · www.scm-inc.com

Chemtrec: (800) 424-9300  
Poison Center: (800) 562-8236  
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## SAFETY DATA SHEET

Identity: Zinc

Formula: Zn

### SECTION I - GENERAL INFORMATION

Manufacturer: Super Conductor Materials, Inc.

The information below is believed to be accurate and represents the best information available to Super Conductor Materials, Inc. However, SCM makes no warranty, expressed or implied with respect to such information and assumes no liability resulting from its use.

### SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Molecular weight: 65.41

CAS #	OSHA PEL	ACGIH TLV	%
7440-66-6	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>	0.0-100.0%

### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: 907.00°C

Specific Gravity (H<sub>2</sub>O=1): 7.14 at 25.0°C

Melting Point: 419.5°C

Vapor Pressure (vs. air or mmHg): N/A

Evaporation Rate: N/A

Vapor Density (vs. air=1): N/A

Solubility in water: Insoluble, reacts with water

Flash Point: N/A

*Appearance and odor:* Bluish-white metal, no odor

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

*Method Used:* Unknown

*Explosive Limits:* LEL: N/A

UEL: N/A

*Extinguishing Media:* Use suitable extinguishing agent for surrounding material and type of fire

#### *Special Fire Fighting Procedures:*

Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

#### *Unusual Fire and Explosion Hazards:*

- When heated to decomposition, zinc metal may emit toxic fume of ZnO.
- Flammable in the form of dust when exposed to heat or flame.
- Contact with water may speed up burning.

### SECTION V - REACTIVITY DATA

*Stability:* Stable

*Conditions to Avoid (stability):* Water and moisture

*Incompatibility:* Acetic acid; aluminum; aluminum, magnesium, rusted steel; ammonium nitrate, ammonium chloride, water; ammonium sulfide; arsenic trioxide; calcium chloride; carbon disulfide; carbon tetrachloride;



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chlorinated rubber; catalytic metals, acids; electrolytes, silver; ethyl acetoacetate, tris(bromomethyl)ethanol; halocarbons; halogens or interhalogens; lead azide; manganese dichloride; metal oxides; 2-nitroanisole, sodium hydroxide; nitrobenzene; nitrogen compounds; non-metals: arsenic, selenium and tellurium; oxidants; paint primer base; pentacarbonyliron, transition metal halides; seleninyl bromide; sodium hydroxide; water; zinc chloride.

*Hazardous Decomposition or Byproducts:* None

*Hazardous Polymerization:* Will not occur

*Conditions to avoid (hazardous polymerization):* None

## SECTION VI - HEALTH HAZARD DATA

*Routes of entry:* Inhalation? Yes    Skin? No    Eyes? No    Ingestion? Yes    Other? No

### Signs and Symptoms of Overexposure:

*Inhalation:* May cause a sweet taste, throat dryness, coughing, weakness, generalized aches, chills, fever, nausea and vomiting.

*Ingestion:* May cause coughing, shortness of breath and sweating.

*Skin:* May cause redness and itching.

*Eye:* No acute or chronic health effects recorded.

### Health Hazards (Acute and Chronic):

#### *Inhalation:*

Acute: May cause brass chills.

Chronic: May cause respiratory tract irritation with nasopharyngitis and laryngitis.

#### *Ingestion:*

Acute: May cause coughing, shortness of breath and sweating.

Chronic: No chronic health effects recorded.

#### *Skin:*

Acute: May cause irritation.

Chronic: No chronic health effects recorded.

#### *Eye:*

Acute: No acute health effects recorded.

Chronic: No chronic health effects recorded.

*Target Organs:* No target organ recorded

*Carcinogenicity:* NTP? No

IARC Monographs? No

OSHA Regulated? No

*Medical Conditions Aggravated by Exposure:* Pre-existing respiratory disorders

### Emergency and First Aid Procedures:

*Inhalation:* Remove victim to fresh air, keep warm and quiet, and give oxygen if breathing is difficult; seek medical attention

*Ingestion:* Give 1-2 glasses of milk or water and induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person

*Skin:* Remove contaminated clothing, brush material off skin, wash affected area with mild soap and water, and seek medical attention if symptoms persist

*Eye:* Flush eyes with lukewarm water, lifting upper and lower eyelids for at least 15 minutes and seek medical attention

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

### *Steps to be taken in case material is released or spilled:*

Wear appropriate respiratory and protective equipment specified in section VIII. Isolate spill area, provide ventilation and extinguish sources of ignition. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.



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*Waste disposal method:*

Dispose of in accordance with state, local, and federal regulations.

*Hazard Label Information:*

Store in cool, dry area and in tightly sealed container separate from acids and alkalis.

Wash thoroughly after handling.

**SECTION VIII - CONTROL MEASURES**

*Protective Equipment Summary (Hazard Label Information):*

NIOSH approved respirator, impervious gloves, safety glasses, clothes to prevent contact.

*Ventilation:*

Local Exhaust: Local exhaust ventilation may be necessary to control any air contaminants to low exposure levels.

Mechanical (Gen): Good general ventilation is recommended.

*Work/Hygienic/Maintenance Practices:*

Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

Please be advised that N/A can either mean Not Applicable or No Data Has Been Established