Zinc, Powder



Section 1 Product Description

Product Name: Zinc, Powder

Recommended Use: Science education applications

Synonyms: spelter

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING



Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

GHS Classification:

Hazardous to the aquatic environment - Acute Category 1, Hazardous to the aquatic environment - Chronic Category 1

Other Safety Precautions: May be harmful if swallowed, in contact with skin or if inhaled.

Acute Toxicity Oral Contains
Acute Toxicity Dermal Contains
Acute Toxicity Inhalation Gas

100 % of the mixture consists of ingredient(s) of unknown toxicity
100 % of the mixture consists of ingredient(s) of unknown toxicity
100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Acute Toxicity Inhalation Vapor 100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Acute Toxicity Inhalation Dust/Mist 100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Zinc, Powder
 7440-66-6
 100

Section 4 First Aid Measures

Emergency and First Aid Procedures

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

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

Skin Contact: After contact with skin, wash immediately with plenty of water.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this

material.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

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Fire and/or Explosion Hazards: Avoid Dusting. May become explosive when dispersed in air. Reacts with some acids

and bases to form hydrogen gas.

Zinc Oxides **Hazardous Combustion Products:**

Spill or Leak Procedures Section 6

Steps to Take in Case Material Is

Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS

Avoid dusting.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Do not allow the spilled product to enter public drainage system or open waterways. Collect

spillage.

Handling and Storage Section 7

Handling: Avoid release to the environment. 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. Storage:

Green - general chemical storage Storage Code:

Section 8 Protection Information

ACGIH OSHA PEL (STEL) (TWA) (STEL)

Chemical Name (TWA) Zinc, Powder 2 mg/m3 10 mg/m3 5 mg/m3 10 mg/m3

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE):

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

Lab coat, apron, eye wash, safety shower.

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

> equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

Gloves: Natural latex,, Natural rubber, Neoprene, Nitrile

Section 9 Physical Data

Formula: Zn

Vapor Pressure: N/A Molecular Weight: 65.4 Evaporation Rate (BuAc=1): N/A Appearance: Powder Vapor Density (Air=1): N/A Odor: No data available

Odor Threshold: No data available

pH: No data available Melting Point: 419 C

Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: N/A N/A

Specific Gravity: 7.133 Solubility in Water: Practically Insoluble Log Pow (calculated): No data available Autoignition Temperature: No data available

Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: 0%

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Acids, Caustics (bases), Strong oxidizing agents

Hazardous Decomposition Products: Zinc Oxides **Hazardous Polymerization:** Will not occur

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Section 11 Toxicity Data

Routes of Entry
Symptoms (Acute):

Inhalation, ingestion, eye or skin contact.
Respiratory disorders, Gastrointestinal,

Delayed Effects: No data available

Acute Toxicity:

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50No data available7440-66-6Not determinedNot determinedNot determined

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHANo data available7440-66-6Not listedNot listedNot listed

Chronic Effects:

PG = II UN1436

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

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

evaluated.

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical Name CAS Number Eco Toxicity

Zinc, Powder 7440-66-6 96 HR LC50 PIMEPHALES PROMELAS 2.66 MG/L [STATIC]

96 HR LC50 CYPRINUS CARPIO 30 MG/L

96 HR LC50 CYPRINUS CARPIO 7.8 MG/L [STATIC]

96 HR LC50 LEPOMIS MACROCHIRUS 3.5 MG/L [STATIC] 96 HR LC50 ONCORHYNCHUS MYKISS 0.41 MG/L [STATIC]

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

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

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

Zinc Powder

UN number: 3077 Class: 9 Packing group: III Proper shipping

Hazard Class = 4.3 (4.2) name: Environmentally hazardous substance, solid, n.o.s. (Zinc

powder (stabilized), Zinc oxide)

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

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Zinc, Powder	7440-66-6	Zinc	No	454 kg final	No	No
				RQ (no		

reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is $>100 \mu m);$ 1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)

Section 16

Additional Information

Revised: 04/03/2014 Replaces: 03/17/2014 Printed: 06-12-2014

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.

Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

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