

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Zinc Metal Granular

CAS number 7440-66-6

Synonyms Zinc

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

#### 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC  
12501 Pauls Valley Road  
Austin, Texas 78737  
U.S.A.

Telephone 512-668-9918

Fax 512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Substances/mixtures which, in contact with water, emit flammable gases (Category 1)

Pyrophoric solids (Category 1)

Combustible dust

#### 2.2 GHS Label elements, including precautionary statements



Pictogram	
Signal Word	Danger
Hazard statements	May form combustible dust concentrations in air In contact with water releases flammable gases which may ignite spontaneously Catches fire spontaneously if exposed to air
Precautionary statements	Keep away from heat/sparks/open flames/hot surfaces. - No smoking Do not allow contact with air Wear protective gloves/protective clothing/eye protection/face protection Keep away from any possible contact with water, because of violent reaction and possible flash fire Handle under inert gas. Protect from moisture Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages In case of fire: Use CO2, dry chemical, or foam for extinction Store under an inert atmosphere Store in a dry place. Store in a closed container Store in a well-ventilated place. Keep container tightly closed Dispose of contents/container to an approved waste disposal plant

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Very toxic to aquatic life with long lasting effects.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Zinc	Zinc Metal Granular	7440-66-6	> 99.8%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

<b>If inhaled</b>	Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
<b>In case of skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
<b>In case of eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>If swallowed</b>	Do NOT induce vomiting. Get medical attention.

## 4.2 Most important symptoms and effects, both acute and delayed

No information available.

## 4.3 Indication of any immediate medical attention and special treatment needed

Note to Physician: Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Dry sand, clay, approved class D extinguishers.

**Unsuitable extinguishing media** DO NOT USE WATER, Carbon dioxide (CO<sub>2</sub>), Dry chemical, Chemical foam.

### 5.2 Specific hazards arising from the substance or mixture

Flammable. Fine dust dispersed in air may ignite. Pyrophoric: Spontaneously flammable in air. Water reactive. Contact with water liberates extremely flammable gases. Do not allow run-off from fire-fighting to enter drains or water courses.

### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 5.4 Further information

**Flash Point** No information available.

**Autoignition Temperature** No information available.

#### Explosion limits

**Upper** No information available.

**Lower** No information available.

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

#### NFPA

Health	Flammability	Instability	Physical hazards
1	4	3	W

## SECTION 6: Accidental release measures

## **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment as required. Remove all sources of ignition. Avoid dust formation. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing.

## **6.2 Environmental precautions**

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.

## **6.3 Methods and materials for containment and cleaning up**

Remove all sources of ignition. Do not expose spill to water. Sweep up and shovel into suitable containers for disposal. Use spark-proof tools and explosion-proof equipment. Avoid dust formation.

## **6.4 Reference to other sections**

See Section 2 for full list of hazard and precaution statements.

# **SECTION 7: Handling and storage**

## **7.1 Precautions for safe handling**

### **Precautions on safe handling**

Use only under a chemical fume hood. Handle under an inert atmosphere. Do not allow contact with air. Do not allow contact with water. Wear personal protective equipment/face protection. Avoid dust formation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.

### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

## **7.2 Conditions for safe storage, including any incompatibilities**

### **Storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere. Keep away from heat, sparks and flame. Keep away from water or moist air.

### **Incompatibilities**

Strong oxidizing agents, strong acids, strong bases, amines.

# **SECTION 8: Exposure controls/personal protection**

## **8.1 Occupational exposure limits**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

## 8.2 Exposure controls

### Appropriate engineering controls

Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin protection

Wear appropriate protective gloves.

#### Body Protection

Wear appropriate clothing to prevent skin exposure.

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Control of environmental exposure

Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Solid
Appearance	Grey
Odor	Odorless
Odor Threshold	No information available.
pH	No information available.
Melting Point/Range	420 °C / 788 °F
Boiling Point/Range	907 °C / 1664.6 °F
Evaporation Rate	Not applicable.
Flammability (solid)	No information available.
Flammability or explosive limit	
Upper	No information available.
Lower	No information available.
Vapor Pressure	No information available.

Vapor Density	Not applicable.
Density	No information available.
Solubility	Reacts with water
Partition coefficient; n-octanol/water	No information available.
Autoignition Temp	No information available.
Decomposition Temp	No information available.
Viscosity	Not applicable.
Molecular Formula	Zn
Molecular Weight	65.36
VOC Content(%)	No information available.
Oxidizing properties	No information available.

## 9.2 Other safety information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reactive Hazard.

### 10.2 Chemical stability

Water reactive. Moisture sensitive. Air sensitive. Pyrophoric: Spontaneously flammable in air.

### 10.3 Possibility of hazardous reactions

Contact with water liberates extremely flammable gases. Pyrophoric: Spontaneously flammable in air.

### 10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Exposure to air. Exposure to moist air or water. Keep away from open flames, hot surfaces and sources of ignition.

### 10.5 Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases, Amines.

### 10.6 Hazardous decomposition products

Heavy metal oxides, Hydrogen.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc	> 2000 mg/kg bw (rat)	Not listed.	> 5.41 g Zn/m <sup>3</sup> air (rat)

**Skin corrosion/irritation**

No information available.

**Serious eye damage/eye irritation**

No information available.

**Respiratory or skin sensitization**

No information available.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Zinc	7440-66-6	Not listed	Not listed	Not listed	Not listed	Not listed

**Specific target organ toxicity - single exposure**

None known.

**Specific target organ toxicity - repeated exposure**

None known.

**Reproductive toxicity**

No information available.

**Chronic effects**

No information available.

**11.2 Additional Information**

The toxicological properties have not been fully investigated.

**SECTION 12: Ecological information****12.1 Toxicity**

Product		Species	Test Results	
Zinc	EC50	Pseudokirchneriella subcapitata	0.11-0.271 mg/L	96 h
	LC50	Oncorhynchus mykiss	0.41 mg/L	96 h
	LC50	Pimephales promelas	2.16-3.05 mg/L	96 h
	EC50	Daphnia magna	0.139-0.0908 mg/L	48 h

**12.2 Persistence and degradability**

May persist based on information available.

**12.3 Bio accumulative potential**

No information available.

#### 12.4 Mobility in soil

Is not likely mobile in the environment.

#### 12.5 Results of PBT and vPvB assessment

No information available.

#### 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

No information available.

### SECTION 13: Disposal considerations

#### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### SECTION 14: Transport information

#### DOT (US)

UN-no	UN1436
Proper Shipping Name	Zinc
Hazard Class	4.3
Subsidiary Hazard Class	4.2
Packing Group	II

#### IMDG

UN-no	UN1436
Proper Shipping Name	Zinc
Hazard Class	4.3
Subsidiary Hazard Class	4.2
Packing Group	II

#### IATA

UN-no	UN1436
Proper Shipping Name	Zinc
Hazard Class	4.3
Subsidiary Hazard Class	4.2
Packing Group	II

### SECTION 15: Regulatory information



**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Listed. Zinc (7440-66-6). Hazardous Substances RQ: 1000 lb

**SARA 304 Emergency release notification**  
Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**  
Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**  
Not listed.

**SARA 311/312 Hazardous**  
Listed. See section 2 for more information.

**SARA 313 (TRI reporting)**  
Regulated. Zinc (7440-66-6). Weight: > 95%; Threshold value: 1.0%

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**  
Not listed.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**  
Not listed.

**Safe Drinking Water Act**  
Not listed.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**  
Not listed.

**US state regulations**

**US. Massachusetts RTK - Substance List**  
Listed.

**US. New Jersey Worker and Community Right-to-Know Act**  
Listed.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed.

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

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**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.