

# **SAFETY DATA SHEET**

Creation Date 03-Jun-2010 Revision Date 24-May-2017 Revision Number 3

1. Identification

Product Name Zinc, Granular and Mossy

Cat No. : Z2-3; Z2-500; Z11-500; Z15-3; Z15-500; Z16-500

Synonyms (20-30 Mesh/Certified ACS/Technical)

Recommended Use Laboratory chemicals.

Uses advised against

Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

**Emergency Telephone Number** 

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

# 2. Hazard(s) identification

### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

### Label Elements

None required

### Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

# 3. Composition / information on ingredients

Component	CAS-No	Weight %	
Zinc metal	7440-66-6	> 99	

# 4. First-aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Obtain medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if

symptoms occur.

**Inhalation** Move to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial

respiration.

**Ingestion** Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects
Notes to Physician

No information available. Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment. Dry chemical, soda ash, lime or sand. approved class D

extinguishers.

Unsuitable Extinguishing Media Water

Flash Point No information available Method - No information available

Autoignition Temperature 460 °C / 860 °F

**Explosion Limits** 

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Do not allow run-off from fire fighting to enter drains or water courses.

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx) Sulfur oxides Ammonia

### **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.

NFPA

Health	Flammability	Instability	Physical hazards
1	1	0	N/A

## 6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin,

eyes and clothing.

**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. See Section 12 for additional

ecological information.

**Methods for Containment and Clean** Sweep up or vacuum up spillage and collect in suitable container for disposal. **Up** 

	7. Handling and storage
Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls / personal protection

This product does not contain any hazardous materials with occupational exposure **Exposure Guidelines** 

limitsestablished by the region specific regulatory bodies.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. 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.

Wear appropriate protective gloves and clothing to prevent skin exposure. Skin and body protection

**Respiratory Protection** No protective equipment is needed under normal use conditions.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

# 9. Physical and chemical properties

**Physical State** Solid Light blue **Appearance** Odor Odorless

**Odor Threshold** 

No information available Hq No information available Melting Point/Range 419 °C / 786.2 °F 907 °C / 1664.6 °F **Boiling Point/Range** Flash Point No information available

**Evaporation Rate** Not applicable

No information available Flammability (solid, gas)

Flammability or explosive limits

No data available Upper Lower No data available **Vapor Pressure** 1 mmHg @ 487 °C

**Vapor Density** Not applicable

**Specific Gravity** 7.14

Insoluble in water Solubility Partition coefficient; n-octanol/water No data available 460 °C / 860 °F **Autoignition Temperature** No information available **Decomposition Temperature** Not applicable

Viscosity

Molecular Formula Zn 65.38 **Molecular Weight** 

# 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stable under normal conditions. Stability

Incompatible products. Excess heat. Exposure to moist air or water. **Conditions to Avoid** 

**Incompatible Materials** Strong oxidizing agents, Strong acids, Strong bases, Amines, Combustible material,

Peroxides, Metals

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### Zinc, Granular and Mossy

Hazardous Decomposition Products Nitrogen oxides (NOx), Sulfur oxides, Ammonia

Hazardous polymerization does not occur. **Hazardous Polymerization** 

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

**Product Information** 

No acute toxicity information is available for this product

**Component Information Toxicologically Synergistic** 

No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Zinc metal	7440-66-6	Not listed				

**Mutagenic Effects** No information available

No information available. **Reproductive Effects** 

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

**Aspiration hazard** No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

#### **Ecotoxicity**

The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Zinc metal	EC50: 0.09 - 0.125 mg/L,	LC50: = 0.41 mg/L, 96h	Not listed	EC50: 0.139 - 0.908 mg/L,
	72h static	static (Oncorhynchus		48h Static (Daphnia magna)
	(Pseudokirchneriella	mykiss)		
	subcapitata)	LC50: = 0.59 mg/L, 96h		
	EC50: 0.11 - 0.271 mg/L,	semi-static (Oncorhynchus		
	96h static	mykiss)		
	(Pseudokirchneriella	LC50: = 0.24 mg/L, 96h		
	subcapitata)	flow-through (Oncorhynchus		
		mykiss)		
		LC50: = 3.5 mg/L, 96h static		
		(Lepomis macrochirus)		
		LC50: = 7.8 mg/L, 96h static		
		(Cyprinus carpio)		

LC50: = 0.45 mg/L, 96h	
semi-static (Cyprinus carpio)	
LC50: = 30 mg/L, 96h	
(Cyprinus carpio)	
LC50: = 2.66 mg/L, 96h	
static (Pimephales	
promelas)	
LC50: 0.211 - 0.269 mg/L,	
96h semi-static (Pimephales	
promelas)	
LC50: 2.16 - 3.05 mg/L, 96h	
flow-through (Pimephales	
promelas)	
' '	

Persistence and Degradability

No information available

**Bioaccumulation/ Accumulation** 

No information available.

Mobility

No information available.

# 13. Disposal considerations

**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.

14. Transport information					
DOT	Not regulated				
DOT TDG IATA	Not regulated				
IATA	Not regulated				
IMDG/IMO	Not regulated				
15 Regulatory information					

### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Zinc metal	Х	Х	-	231-175-3	-		Χ	-	Х	Х	X

### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

# U.S. Federal Regulations

**TSCA 12(b)** 

Not applicable

#### **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Zinc metal	7440-66-6	> 99	1.0

### SARA 311/312 Hazard Categories

Acute Health Hazard

Chronic Health Hazard

No
Fire Hazard

Sudden Release of Pressure Hazard

No
Reactive Hazard

No

**CWA (Clean Water Act)** 

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	
Zinc metal	-	-	X	X	

Clean Air Act Not applicable

**OSHA** Occupational Safety and Health Administration

Not applicable

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Zinc metal	1000 lb	-

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals

### U.S. State Right-to-Know

Regulations

	Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
I	Zinc metal	X	Х	X	-	X

### **U.S. Department of Transportation**

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

#### **U.S.** Department of Homeland Security

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade No information available

	16. Other information
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Prepared By Regulatory Affairs

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

### Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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

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materials or in any process, unless specified in the text

**End of SDS**