SAFETY DATA SHEET SPECTRUM®



Revision date 08-September-2020

Revision Number 2

1. Identification

Product identifier

Product Name ZINC METAL, 325 MESH, DUST, REAGENT

Other means of identification

Product Code(s) Z1005

UN/ID no UN1436

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use No information available

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Address

Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

2. Hazard(s) identification

Classification

Substances or mixtures which, in contact with water, emit flammable gases	Category 1
Combustible dust	Yes

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Danger

Hazard statements

In contact with water releases flammable gases which may ignite spontaneously May form combustible dust concentrations in air



Appearance Powder Physical state Solid Odor No information available

Precautionary Statements - Prevention

Do not allow contact with water
Handle under inert gas. Protect from moisture
Wear protective gloves/eye protection/face protection
Keep away from all ignition sources including heat, sparks, and flame
Keep container closed and grounded
Prevent dust accumulations to minimize explosion hazard

Precautionary Statements - Response

Brush off loose particles from skin and immerse in cool water/wrap in wet bandages In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store in a dry place. Store in a closed container

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

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

3. Composition/information on ingredients

Substance

Chemical name	CAS No	Weight-%	Trade secret
Zinc Metal	7440-66-6	100	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash skin with soap and water.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

5. Fire-fighting measures

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

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Avoid generation of dust. Fine dust dispersed in air may ignite.

Explosion data

Sensitivity to mechanical impact none.

Sensitivity to static discharge yes.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid generation of dust. Avoid contact with eyes. Use

personal protective equipment as required. Do not breathe dust. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary

measures against static discharges.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Prevent dust cloud.

Methods for cleaning up

Take up with inert, damp, non-combustible material using clean non-sparking tools and

place into loosely covered plastic containers for later disposal. Pick up and transfer to

properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate

ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with eyes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use spark-proof tools and explosion-proof equipment. Take precautionary measures

against static discharges.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure LimitsThe following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protectionNo special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not breathe dust.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid
Appearance Powder
Color Gray; blue

Odor No information available Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

no data available None known Ha 419 °C / 786.2 °F 907 °C / 1664.6 °F Melting point / freezing point None known Boiling point / boiling range None known Flash point no data available None known **Evaporation rate** no data available None known Flammability (solid, gas) no data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableNone knownVapor densityno data availableNone knownRelative density7.14None knownWater solubilityInsoluble in cold waterNone known

Insoluble in hot water

Solubility(ies) Insoluble in Acetone None known

Insoluble in diethyl ether Insoluble in methanol Insoluble in n-octanol

Partition coefficientNo data availableNone knownAutoignition temperature460 °C / 860 °FNone knownDecomposition temperatureNone known

Kinematic viscosity no data available None known

Dynamic viscosity No data available None known

Other information

Explosive properties
Oxidizing properties
No information available

10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions
None under normal processing.

Conditions to avoid Excessive heat. Heating in air. dust formation.

Incompatible materialsNone known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information .

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

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

Skin corrosion/irritation
Serious eye damage/eye irritation
Respiratory or skin sensitization
Germ cell mutagenicity

No information available.
No information available.
No information available.

Reproductive toxicity No information available.

STOT - single exposureSTOT - repeated exposure
No information available.
No information available.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

			<u> </u>	
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Zinc Metal	EC50: 0.09 - 0.125mg/L	LC50: 0.211 - 0.269mg/L	-	EC50: 0.139 - 0.908mg/L
7440-66-6	(72h, Pseudokirchneriella			(48h, Daphnia magna)
	subcapitata) EC50: 0.11 -	promelas) LC50: 2.16 -		
	0.271mg/L (96h,	3.05mg/L (96h,		
	Pseudokirchneriella	Pimephales promelas)		
	subcapitata)	LC50: =0.24mg/L (96h,		
	' '	Oncorhynchus mykiss)		
		LC50: =0.41mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =0.45mg/L (96h,		
		Cyprinus carpio) LC50:		
		=0.59mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =2.66mg/L (96h,		
		Pimephales promelas)		
		LC50: =3.5mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =30mg/L (96h,		
		Cyprinus carpio) LC50:		
		=7.8mg/L (96h, Cyprinus		
		carpio)		

Persistence and degradability Bioaccumulation

No information available. Inherently biodegradable.

Other adverse effects

No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. Transport information

DOT

UN/ID no UN1436
Proper Shipping Name: UN1436
Zinc powder

Hazard class 4.3
Subsidiary Class 4.2
Packing group:

Special Provisions A19, IB7, IP2, T3, TP33, W31, W40

Marine Pollutant Severe Marine Pollutant

Description: UN1436, Zinc powder, 4.3 (4.2), II

Emergency Response Guide 138 Number

TDG

UN-No: UN1436
Proper Shipping Name: Zinc dust
Hazard class 4.3
Subsidiary Class 4.2
Packing Group: II

Description: UN1436, Zinc dust, 4.3 (4.2), II

MEX

UN-No UN1436
Proper Shipping Name Zinc powder

Hazard class 4.3 Subsidiary Class 4.2 Packing Group II

Description UN1436, Zinc powder, 4.3 (4.2), II

ICAO (air)

UN-No: UN1436
Proper Shipping Name: Zinc dust
Hazard class 4.3
Subsidiary hazard class 4.2
Packing Group: II
Special Provisions A3

Description: UN1436, Zinc dust, 4.3 (4.2), II

IATA

UN number UN1436
Proper Shipping Name: Zinc dust
Transport hazard class(es) 4.3
Subsidiary hazard class
Packing group II

Description: UN1436, Zinc dust, 4.3 (4.2), II

IMDG

UN number UN1436
Proper shipping name Zinc powder

Transport hazard class(es) 4.3
Subsidiary hazard class 4.2
Packing group II
EmS-No F-G, S-O
Marine pollutant NP1

Description UN1436, Zinc powder, 4.3 (4.2), II

RID

UN number UN1436
Proper Shipping Name: UN1436
Zinc powder

Transport hazard class(es) 4.3
Packing group | | |
Classification code | | WS

Description: UN1436, Zinc powder, 4.3 (4.2), II

Labels 4.3 + 4.2

<u>ADR</u>

UN number 1436 Proper Shipping Name: Zinc powder

Transport hazard class(es) 4.3
Subsidiary hazard class 4.2
Packing group II
Classification code WS
Tunnel restriction code (D/E)

Description: 1436, Zinc powder, 4.3 (4.2), II, (D/E)

Labels 4.3 + 4.2

ADN

UN/ID No UN1436
Proper shipping name Zinc powder

Transport hazard class(es) 4.3
Packing Group II
Classification code WS

Description UN1436, Zinc powder, 4.3 (+ 4.2), II

Hazard label(s) 4.3 + 4.2
Limited quantity (LQ) 0
ventilation VE01
Equipment Requirements PP, EX, A

15. Regulatory information

International Inventories

TSCA Complies

DSL/NDSL Complies EINECS/ELINCS Complies

ENCS This product complies with ENCS: IECSC This product complies with China:

KECL Complies PICCS Complies

AICS All the constituents of this material are listed on the Australian Inventory of Chemical

Substances (AICS).

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Zinc Metal - 7440-66-6	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

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).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Zinc Metal	454 kg final RQ	-
7440-66-6	1000 lb final RQ	

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA

Health hazards 2 Flammability 1 Instability 0

Physical and chemical properties W

HMIS

Health hazards 2 Flammability 1 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 08-September-2020 No information available. **Revision Note**

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 materials or in any process, unless specified in the text.

End of Safety Data Sheet