



Version 1.3 Revision Date 07/29/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Zinc, Enriched Zinc

Chemical Formula

Molecular Weight: 65.37 amu CAS No. 7440-66-6 RTECS No. ZG8600000

Synonyms Blue powder, Granular zinc, LS 2, LS 6, Merrillite, Rheinzink, Zinc dust, Zinc

powder

Supplier Address* **ISOFLEX USA**

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United States

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Emergency Phone Number Infotrac / +1 800-535-5053

(both supplier and

manufacturer) *May include subsidiaries or affiliate companies/divisions

Email iusa@isoflex.com Website www.isoflex.com Preparation Information **ISOFLEX USA**

Product Safety +1 415-440-4433

2. HAZARDS IDENTIFICATION

Emergency Overview: Self-heating substances and mixtures (Category 1), H251. Substances and mixtures, which in contact with water, emit flammable gases (Category 2), H261.

NFPA Ratings: (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health Hazard = 0 Flammability = 0 Reactivity = 0



HMIS Ratings: (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health Hazard = 0 Flammability = 0Physical Hazard = 0

HEALTH HAZARD	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

Potential Health Effects

Skin Contact May cause skin irritation

Skin Absorption May be harmful if absorbed through the skin

Eye Contact May cause eye irritation

Inhalation Material may be irritating to mucous membranes and upper respiratory tract; may

be harmful if inhaled

Ingestion May be harmful if swallowed

For additional information on toxicity, please refer to Section 11.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name: Zinc CAS No.: 7440-66-6

Chemical Formula: Zn

Molecular Weight: 65.37 amu

4. FIRST AID MEASURES

Oral Exposure If swallowed, wash out mouth with water provided person is conscious.

Call a physician.

Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a

physician.

Dermal Exposure In case of contact, immediately wash skin with soap and copious

amounts of water.

Eye Exposure In case of contact with eyes, flush with copious amounts of water for at

least 15 minutes. Assure adequate flushing by separating the eyelids

with fingers. Call a physician.

5. FIREFIGHTING MEASURES

Flash Point N/A

Autoignition Temperature N/A
Flammability N/A

Suitable Extinguishing

Media

Water spray. carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting

Protective Equipment Wear self-contained breathing apparatus and protective clothing to

prevent contact with skin and eyes.

Specific Hazard(s) Emits toxic fumes under fire conditions

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Exercise appropriate precautions to minimize direct contact with skin or

eyes and prevent inhalation of dust.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Do not let product

enter drains.

Methods for Cleaning Up Sweep up, place in a bag and hold for waste disposal. Avoid raising dust.

Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid

prolonged or repeated exposure.

Storage Keep tightly closed in a dry and well-ventilated place. Never allow

product to get in contact with water during storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory Wear dust mask Hand Protective gloves

Eye Chemical safety goggles
General Hygiene Measures Wash thoroughly after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State Solid Color Grey

Safety Data

Molecular Weight: 65.37 amu pH: N/A Boiling Point/Range: N/A Melting Point/Range: 419.5 °C Freezing Point: N/A Vapor Pressure: N/A Vapor Density: N/A Saturated Vapor Concentration: N/A SG/Density: 7.14 g/cm³ **Bulk Density:** N/A Odor Threshold: Volatile%: N/A N/A VOC Content: N/A Water Content: N/A Solvent Content: N/A **Evaporation Rate:** N/A Surface Tension: N/A Viscosity: N/A Partition Coefficient: N/A Decomposition Temperature: N/A Flash Point: **Explosion Limits:** N/A N/A Flammability: N/A Autoignition Temperature: N/A Refractive Index: N/A Optical Rotation: N/A Miscellaneous Data: N/A Solubility: N/A

10. STABILITY AND REACTIVITY

Stable Stable

Materials to Avoid Zinc reacts with acids, strong alkalies, chlorides, chlorates, oxides,

nitrates, fluorine, and carbon disulfide. The presence of moisture can

result in spontaneous combustion.

Hazardous Decomposition

Products

Zinc/zinc oxides, zinc oxide fumes

Hazardous Polymerization Will not occur

11. TOXICOLOGICAL INFORMATION

Signs and Symptoms

of Exposure

Inhalation of zinc fumes may result in sweet taste, throat dryness, cough, weakness, generalized aching, chills, fever, nausea, vomiting and

purging. Remarks: Mild irritation effect.

Acute Toxicity

InhalationNo data availableDermalNo data availableSkin Corrosion/IrritationNo data available

Serious Eye

Damage/Eye Irritation Respiratory or Skin

Sensitization

No data available

No data available

Germ Cell Mutagenicity No data available

Carcinogenicity

IARC No component of this product present at levels greater than or equal to

0.1% is identified as a probable, possible or confirmed human

carcinogen by IARC.

No data available

No data available

ACGIH No component of this product present at levels greater than or equal to

0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP No component of this product present at levels greater than or equal to

0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA No component of this product present at levels greater than or equal to

0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity
Specific Target Organ

Toxicity / Single Exposure

Specific Target Organ No data available

Toxicity / Repeated Exposure

Aspiration Hazard No data available

12. ECOLOGICAL INFORMATION

Toxicity
No data available
Persistence and
Degradability
No data available

Bioaccumulative Potential

No data available

No data available

Mobility in Soil

No data available

Results of PBT

PBT/vPvB assessment not available, as chemical safety assessment not

and vPvB Assessment required/not conducted

Other Adverse Effects No data available

13. DISPOSAL CONSIDERATIONS

Product Material in the elemental state should be recovered for reuse or

recycling. Observe all federal, state, and local environmental regulations.

Contaminated Packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name None

Non-Hazardous for Transport This substance is considered non-hazardous for transport.

IATA

Non-Hazardous for Air Transport Non-hazardous for air transport

Contact ISOFLEX for other transportation information.

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of

SARA Title III, Section 302.

SARA 313 Components This material does not contain any chemical components with known

CAS numbers that exceed the threshold (De Minimis) reporting levels

established by SARA Title III, Section 313.

SARA 311/312 Hazards No SARA Hazards

Massachusetts Right to Know

Components

Zinc / CAS No. 7440-66-6 / Revision Date 1993-04-24

Pennsylvania Right to Know

Components

Zinc / CAS No. 7440-66-6 / Revision Date 1993-04-24

New Jersey Right to Know

Components

Zinc / CAS No. 7440-66-6 / Revision Date 1993-04-24

California Prop. 65 ComponentsThis product does not contain any chemicals known to the State of

California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Prepared By ISOFLEX USA

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United States

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Revision Number 2

Revision Note Required review and update

ISOFLEX USA's Commonly Used Abbreviations and Acronyms*

ACGIH American Conference of Governmental Industrial Hygienists

ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road

AICS Australian Inventory of Chemical Substances

As Low As Is Reasonably Achievable ALARA

AMU Atomic Mass Unit

ANSI American National Standards Institute

BLS Basic Life Support

BOD5 Biochemical Oxygen Demand Continuous Air Monitor CAM

Chemical Abstracts Service (division of the American Chemical Society) CAS

European Committee for Standardization CEN

Comprehensive Environmental Response Compensation and Liability Act CERCLA

CLP Classification, Labelling and Packaging (European Union)

Chemical Oxygen Demand COD

Controlled Products Regulations (Canada) CPR

CWA Clean Water Act (USA)

DAC Derived Air Concentration (USA)

DOE United States Department of Energy (USA) DOT United States Department of Transportation (USA)

Domestic Substances List (Canada) DSL Half Maximal Effective Concentration EC50 ECL Korean Existing Chemicals List

EINECS European Inventory of Existing Commercial Chemical Substances

Environmentally Hazardous Substance EHS

European List of Notified Chemical Substances **ELINCS**

Emergency Response Procedures for Ships Carrying Dangerous Goods **EMS**

Environmental Protection Agency (USA) EPA

Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 **EPCRA**

Globally Harmonized System GHS

Hazardous Materials Identification System (USA) **HMIS IARC** International Agency for Research on Cancer International Air Transport Association IATA

IBC Intermediate Bulk Containers

ICAO International Civil Aviation Organization IDLH Immediately Dangerous to Life or Health

IECSC Inventory of Existing Chemical Substances Produced or Imported in China

International Maritime Code for Dangerous Goods **IMDG**

Lethal concentration, 50 percent LC50

Lethal dose, 50 percent LD50

LDLO Lethal Dose Low

Lowest-Observed-Effective Concentration LOEC

MARPOL International Convention for the Prevention of Pollution from Ships

Mine Safety and Health Administration (USA) **MSHA**

NCRP National Council on Radiation Protection & Measurements (USA)

NDSL Non-Domestic Substances List (Canada) NFPA National Fire Protection Association (USA)

NIOSH National Institute for Occupational Safety and Health (USA)

NOEC No Observed Effect Concentration

Not Otherwise Specified N.O.S.

NRC Nuclear Regulatory Commission (USA) NTP National Toxicology Program (USA)

Occupational Safety and Health Administration (USA) **OSHA** Persistent Bioaccumulative and Toxic Chemical **PBT**

Permissible Exposure Limit PEL

Philippines Inventory of Chemicals and Chemical Substances **PICCS**

Poisonous by Inhalation Hazard PIH

Resource Conservation and Recovery Act (USA) RCRA

RCT Radiation Control Technician

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (Europe)
RID Regulations Concerning the International Transport of Dangerous Goods by Rail

RQ Reportable Quantity

RTECS Registry of Toxic Effects of Chemical Substances
SARA Superfund Amendments and Reauthorization Act (USA)

SNUR Significant New Use Rule (TSCA)

TDG Transportation of Dangerous Goods (Canada)

TIH Toxic by Inhalation Hazard
TLV Threshold Limit Value
TPQ Threshold Planning Quantity
TSCA Toxic Substances Control Act
TWA Time Weighted Average
UN United Nations (Number)
VOC Volatile Organic Compound

vPvB Very Persistent Very Bioaccumulative Chemical

WGK Wassergefährdungsklassen (Germany: Water Hazard Classes)

WHMIS Workplace Hazardous Materials Information System

General Disclaimer

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^{*}One or more of the above-listed items may not appear in this document.