Revision: August 23, 2020

<ul> <li>Product identifier</li> <li>Trade name: Zinc, Powdered</li> <li>Product code: ZN9505</li> <li>CAS Number:</li> <li>7440-66-6</li> <li>Recommended use and restriction on use</li> <li>Recommended use: Laboratory chemicals</li> <li>Restrictions on use: No relevant information available.</li> <li>Details of the supplier of the Safety Data Sheet</li> <li>Manufacturer/Supplier:</li> <li>AquaPhoenix Scientific, Inc.</li> <li>860 Gitts Run Road</li> <li>Hanover, PA 17331 USA</li> <li>Tel +1 (717)632-1291</li> <li>Info@aquaphoenixSci.com</li> <li>Distributor:</li> <li>AquaPhoenix Scientific</li> <li>860 Gitts Run Road,</li> <li>Hanover, PA 17331 USA</li> <li>Tel +1 (717)632-1291</li> <li>Info@aquaphoenixsci.com</li> <li>Distributor:</li> <li>AquaPhoenix Scientific</li> <li>860 Gitts Run Road,</li> <li>Hanover, PA 17331</li> <li>(717) 632-1291</li> <li>Emergency telephone number:</li> <li>Chem Tel Inc.</li> <li>(800) 255-3324 (North America)</li> <li>+1 (813) 248-0585 (International)</li> </ul> <b>2 Hazard(s) identification Classification of the substance or mixture</b> Combustible Dust May form combustible dust concentrations in air. <b>Label elements GSI Signal word:</b> None. Warning <b>Hazard statements:</b> None. <b>Warning Hazard Statements:</b> None. <b>Other hazards</b> There are no other hazards not otherwise classified that have been identified.	1 Identification	
Product code: ZN9505     CAS Number:     7440-66-6      Recommended use and restriction on use     Recommended use: Laboratory chemicals     Restrictions on use: No relevant information available.     Details of the supplier of the Safety Data Sheet     Manufacturer/Supplier:     AquaPhoenix Scientific, Inc.     860 Gitts Run Road     Hanover, PA 17331 USA     Tel +1 (717)632-1291     Info@aquaphoenixsci.com     Distributor:     AquaPhoenix Scientific     Road,     Hanover, PA 17331     (717) 632-1291     Emergency telephone number:     ChemTel Inc.     (800)255-3924 (North America)     +1 (813)248-0585 (International)      Z Hazard(s) identification      Classification of the substance or mixture     Combustible Dust May form combustible dust concentrations in air.     Label elements     GHS label elements     May form combustible dust concentrations in air.     Signal word:     None.     Warning     Hazard statements:     May form combustion in air.     Precautionary statements:     None.     Warning	· Product identifier	
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Chemical characterization: Substances
 CAS No. Description

(Cont'd. on page 2)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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#### Trade name: Zinc, Powdered

(Cont'd. of page 1)

7440-66-6 zinc powder

#### 4 First-aid measures

#### <sup>•</sup> Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Brush off loose particles from skin.

Wash with soap and water.

If skin irritation is experienced, consult a doctor.

#### • After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### • After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- Most important symptoms and effects, both acute and delayed:
- Gastric or intestinal disorders when ingested.
- · Danger: No relevant information available.
- · Indication of any immediate medical attention and special treatment needed:
- If medical advice is needed, have product container or label at hand.

#### 5 Fire-fighting measures

#### Extinguishing media

· Suitable extinguishing agents:

For metal fires: Use specific agents only.

Dry sand.

Graphite powder.

Copper powder.

- For safety reasons unsuitable extinguishing agents: For metal fires: Use specific agents only.
- · Special hazards arising from the substance or mixture

May form combustible dust concentrations in air.

Formation of toxic gases is possible during heating or in case of fire.

#### • Advice for firefighters

#### • Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### 6 Accidental release measures

#### <sup>•</sup> Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

For large spills, wear protective clothing.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Remove ignition sources.

Environmental precautions Do not allow to enter sewers/ surface or ground water.

(Cont'd. on page 3)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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(Cont'd. of page 2)

#### Trade name: Zinc, Powdered

#### <sup>•</sup> Methods and material for containment and cleaning up

Pick up mechanically.

Sweep up and place into an appropriate container.

**Reference to other sections** 

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

#### <sup>·</sup> Handling

#### · Precautions for safe handling:

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

#### · Information about protection against explosions and fires:

As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.

· Conditions for safe storage, including any incompatibilities

- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

Store away from oxidizing agents.

#### Further information about storage conditions:

Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

• **Specific end use(s)** No relevant information available.

### 8 Exposure controls/personal protection

#### <sup>·</sup> Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### • Exposure controls

#### · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

• Engineering controls: No relevant information available.

#### · Breathing equipment:

Not required under normal conditions of use.

A NIOSH approved dust respirator should be used for operations generating dust.

Protection of hands:

(Cont'd. on page 4)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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#### Trade name: Zinc, Powdered

(Cont'd. of page 3)

Protective gloves

• **Material of gloves** Nitrile rubber, NBR Neoprene gloves Butyl rubber, BR

• Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear. • **Body protection:** Protection may be required for spills.

- · Limitation and supervision of exposure into the environment No special requirements.
- Risk management measures No special requirements.

Information on basic physical and chemical propertiesAppearance:Form:Form:PowderColor:Bluish-grey.Odor:OdorlessOdor threshold:Not determined.PH-value:Not applicable.Melting point/Melting range:419 °C (786.2 °F)Boiling point/Boiling range:908 °C (1666.4 °F)Flash point:The product is not flammable.Flammability (solid, gaseous):May form combustible dust concentrations in air.Auto-ignition temperature:Not determined.Danger of explosion:Can pose a dust explosion hazard if dispersed in air.Explosion limitsLower:Lower:Not determined.Upper:Not determined.Oxidizing properties:Non-oxidizing.Vapor pressure:Not determined.Density at 20 °C (68 °F):7.14 g/cm³ (59.58 lbs/gal)Relative density:Not applicable.Vapor density:Not applicable.Vapor density:Not applicable.Vapor density:Not applicable.	Physical and chemical prope	erties
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	Relative density:	Not determined.
Evaporation rate: Not applicable.		Not applicable.
	Evaporation rate:	Not applicable.

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Trade name: Zinc. Powdered

		(Cont'd. of pag
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/w	vater): Not determined.	
Viscosity		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Other information	No relevant information available.	
Stability and reactivity		
Reactivity: No relevant information	on available.	
	normal temperatures and pressures.	
Thermal decomposition / conditi		
No decomposition if used and store		
Possibility of hazardous reac		
Reacts with steam releasing flamm		
Contact with acids releases flamma		
Contact with acids releases flamma Reacts with strong alkali.		
Contact with acids releases flamma Reacts with strong alkali. Exothermic reaction with acids.	able gases.	
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- · Primary irritant effect:
- · On the skin: Based on available data, the classification criteria are not met.
- · On the eye: Based on available data, the classification criteria are not met.
- · Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

Substance is not listed.

NTP (National Toxicology Program):

Substance is not listed.

### · OSHA-Ca (Occupational Safety & Health Administration):

(Cont'd. on page 6)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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(Cont'd. of page 5)

Substance is not listed.

Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

• Acute effects (acute toxicity, irritation and corrosivity): No relevant information available.

· Repeated dose toxicity: No relevant information available.

• Germ cell mutagenicity: Based on available data, the classification criteria are not met.

• Carcinogenicity: Based on available data, the classification criteria are not met.

• Reproductive toxicity: Based on available data, the classification criteria are not met.

• STOT-single exposure: Based on available data, the classification criteria are not met.

• STOT-repeated exposure: Based on available data, the classification criteria are not met.

• Aspiration hazard: Based on available data, the classification criteria are not met.

### **12 Ecological information**

<sup>·</sup> Toxicity

· Aquatic toxicity No relevant information available.

· Persistence and degradability No relevant information available.

· Bioaccumulative potential: No relevant information available.

• Mobility in soil: No relevant information available.

• Ecotoxical effects:

· Remark: Very toxic for fish

Additional ecological information

· General notes:

Do not allow product to reach ground water, water course or sewage system.

Very toxic for aquatic organisms

• Other adverse effects No relevant information available.

### **13 Disposal considerations**

#### <sup>·</sup> Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

#### · Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

#### **14 Transport information**

#### UN-Number

· DOT, ADR/RID/ADN, IMDG, IATA

UN3077

(Cont'd. on page 7)

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	(Cont'd. of page 6
UN proper shipping name DOT, ADR/RID/ADN, IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (zinc powder)
Transport hazard class(es)	
DOT, IMDG, IATA	
Class Label	9 9
ADR/RID/ADN	
Class Label	9 (M7) 9
Packing group DOT, ADR/RID/ADN, IMDG, IATA	III
Environmental hazards Marine pollutant:	Yes (DOT) Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Hazard identification number (Kemler code): EMS Number:	90 F-A,S-F
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	f Not applicable.
Transport/Additional information:	
DOT Hazardous substance:	1000 lbs, 454 kg

# 15 Regulatory information · Safety, health and environmental regulations/legislation specific for the substance or mixture · United States (USA) · SARA • Section 302 (extremely hazardous substances): Substance is not listed. (Cont'd. on page 8)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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• Section 313 (Specific toxic chemical listings):

Substance is listed.

• TSCA (Toxic Substances Control Act)

· Proposition 65 (California)

 $\cdot$  Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause developmental toxicity for females:

Substance is not listed.

· Chemicals known to cause developmental toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

**EPA (Environmental Protection Agency):** 

D, I, II

· IARC (International Agency for Research on Cancer):

Substance is not listed.

Canadian Domestic Substances List (DSL):

Substance is not listed.

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

#### Sources

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Safety Data Sheets, Individual Manufacturers
SDS Prepared by: ChemTel
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#### Trade name: Zinc, Powdered

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