according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 10.24.2014

### Zinc, Metal, Pieces

### SECTION 1: Identification of the substance/mixture and of the supplier

**Product name**: Zinc,Metal, Pieces

Manufacturer/Supplier Article number: ZN6050

Recommended uses of the product and restrictions on use: Laboratory Chemicals

#### **Manufacturer Details:**

AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

## **Emergency telephone number:**

ChemTel: (24-hour)

+1(800)255-3924

+1(813)248-0585 (International)

## **SECTION 2: Hazards identification**

#### Classification of the substance or mixture:

Signal word: None

## **Hazard statements:**

None

## **Precautionary statements:**

None

Other Non-GHS Classification: None

# **SECTION 3: Composition/information on ingredients**

## Ingredients:

Ingredients:		
CAS 7440-66-6	Zinc	100 %
		Percentages are by weight

## **SECTION 4: First aid measures**

# Description of first aid measures

### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear.

#### After skin contact:

Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

#### After eye contact:

according to 29CFR1910/1200 and GHS Rev. 3

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Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

### After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, discomfort, or vomiting persists. Never give anything by mouth to an unconscious person.

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

Irritation- all routes of exposure. Inhalation of fumes may cause metal fume fever, which is characterized by flulike symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count. Headache. Nausea. Shortness of breath. May cause bronchitis.

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

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

# **SECTION 5: Firefighting measures**

# **Extinguishing media**

## Suitable extinguishing agents:

Use agent most suitable for extinguishing surrounding fire. Use water spray to keep fire-exposed containers cool.

## **Unsuitable extinguishing agents:**

None identified.

# Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors. Containers may explode in the heat of a fire.

# Advice for firefighters:

#### **Protective equipment:**

Wear protective eyeware, gloves, and clothing. Use NIOSH-approved respiratory protection/breathing apparatus. Refer to Section 8.

# Additional information (precautions):

Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes and clothing.

# **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

# **Environmental precautions:**

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

### Methods and material for containment and cleaning up:

Wear protective eyeware, gloves, and clothing. Always obey local regulations. Containerize for disposal. Refer to Section 13. Sweep up and containerize for disposal. Avoid generating dust. Refer to Section 8. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal.

### Reference to other sections: None

#### **SECTION 7: Handling and storage**

## Precautions for safe handling:

Avoid contact with skin, eyes and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Do not eat, drink, smoke, or use personal products when handling chemical substances. Refer to Section 13.

#### Conditions for safe storage, including any incompatibilities:

according to 29CFR1910/1200 and GHS Rev. 3

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# Zinc, Metal, Pieces

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly closed. Store away from incompatible materials.

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





**Control parameters:** 7446-20-0, Zinc, ACGIH TLV: NA, OSHA PEL: NA.

**Appropriate engineering controls:** Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational

Exposure Limits-OELs) indicated above.

**Respiratory protection:** Not required under normal conditions of use. Where risk assessment

shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved

breathing equipment.

**Protection of skin:** Select glove material impermeable and resistant to the substance. Select

glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear

protective clothing.

**Eye protection:** Wear equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU).

Safety glasses or goggles are appropriate eye protection.

**General hygienic measures:** Perform routine housekeeping. Wash hands before breaks and at the end

of work. Avoid contact with skin, eyes and clothing. Before re-wearing,

wash contaminated clothing.

## **SECTION 9: Physical and chemical properties**

Appearance (physical state, color):	Grey solid	Explosion limit lower: Explosion limit upper:	Not determined Not determined
Odor:	Odorless	Vapor pressure at 20°C:	1 mmHg at 487 °C
Odor threshold:	Not determined	Vapor density:	Not determined
pH-value:	Not determined	Relative density:	Not determined
Melting/Freezing point:	419 °C	Solubilities:	Reacts with water
Boiling point/Boiling range:	908 °C	Partition coefficient (noctanol/water):	Not determined
Flash point (closed cup):	Not determined	Auto/Self-ignition temperature:	460 ºC
Evaporation rate:	Not determined	Decomposition temperature:	Not determined
Flammability (solid, gaseous):	Not determined	Viscosity:	a. Kinematic: Not determined b. Dynamic: Not determined
Density at 20°C:	7.14 g/cm3 at 20 °C		

according to 29CFR1910/1200 and GHS Rev. 3

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Zinc, Metal, Pieces		
Specific Gravity:	7.14	

# **SECTION 10: Stability and reactivity**

## Reactivity:

Nonreactive under normal conditions. Reacts with water.

### **Chemical stability:**

Stable under normal conditions.

#### Possible hazardous reactions:

None under normal processing.

#### **Conditions to avoid:**

Incompatible materials. Excess heat.

### **Incompatible materials:**

Oxidizing agents. Strong acids or bases.

# **Hazardous decomposition products:**

Zinc oxides.

# **SECTION 11: Toxicological information**

**Acute Toxicity**: None

**Chronic Toxicity**: No additional information.

**Skin corrosion/irritation**: No additional information. **Serious eye damage/irritation**: No additional information. **Respiratory or skin sensitization**: No additional information.

Carcinogenicity:

**EPA:** IRIS Carcinogenicity Assessment- D (data are inadequate for an assessment of human carcinogenic potential; inadequate information to assess carcinogenic potential) Zinc

Germ cell mutagenicity: No additional information.

**Reproductive Toxicity:** 

Reproductive effects shown in laboratory animals.

**STOT-single and repeated exposure**: No additional information.

#### Additional toxicological information:

No additional information.

# **SECTION 12: Ecological information**

**Ecotoxicity:** No additional information.

**Persistence and degradability**: No additional information. **Bioaccumulative potential**: No additional information.

**Mobility in soil**: No additional information.

Other adverse effects: No additional information.

## **SECTION 13: Disposal considerations**

## Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers

according to 29CFR1910/1200 and GHS Rev. 3

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### Zinc, Metal, Pieces

as unused product. Product or containers must not be disposed with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). 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. Ensure complete and accurate classification.

## **SECTION 14: Transport information**

**US DOT** 

**UN Number:** 

ADR, ADN, DOT, IMDG, IATA Not Regulated.

Limited Quantity Exception: None

Bulk: Non Bulk:

RQ (if applicable): None RQ (if applicable): None

**Proper shipping Name:** Not Regulated. **Proper shipping Name:** Not Regulated.

Hazard Class: None Hazard Class: None

Packing Group: Not Regulated.Packing Group: Not Regulated.Marine Pollutant (if applicable): NoMarine Pollutant (if applicable): No

additional information. additional information.

Comments: None Comments: None

# **SECTION 15: Regulatory information**

### **United States (USA)**

#### SARA Section 311/312 (Specific toxic chemical listings):

None of the ingredients are listed.

## SARA Section 313 (Specific toxic chemical listings):

7440-66-6 Zinc Compounds (N982).

#### RCRA (hazardous waste code):

7440-66-6 Zinc [Phase 4 LDR Rule - Universal Treatment Standards 2.61 mg/L (wastewater); 4.3 mg/L TCLP (nonwastewater)].

# TSCA (Toxic Substances Control Act):

All ingredients are listed.

## CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

7440-66-6 Zinc 1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is  $\>100 \mu m$ ).

#### Proposition 65 (California):

#### Chemicals known to cause cancer:

None of the ingredients are listed.

### Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

#### Chemicals known to cause reproductive toxicity for males:

according to 29CFR1910/1200 and GHS Rev. 3

**Initial preparation date:** : 10.24.2014

### Zinc, Metal, Pieces

None of the ingredients are listed.

## Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### Canada

#### Canadian Domestic Substances List (DSL):

All ingredients are listed.

#### **SECTION 16: Other information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**NFPA**: 1-0-0 **HMIS**: 1-0-0

GHS Full Text Phrases: None

# **Abbreviations and Acronyms:**

IMDG International Maritime Code for Dangerous Goods.

IATA International Air Transport Association.

GHS Globally Harmonized System of Classification and Labelling of Chemicals.

ACGIH American Conference of Governmental Industrial Hygienists

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

NFPA National Fire Protection Association (USA).

HMIS Hazardous Materials Identification System (USA).

WHMIS Workplace Hazardous Materials Information System (Canada).

DNEL Derived No-Effect Level (REACH).

PNEC. Predicted No-Effect Concentration (REACH).

CFR Code of Federal Regulations (USA)

SARA Superfund Amendments and Reauthorization Act (USA).

RCRA. Resource Conservation and Recovery Act (USA).

TSCA. Toxic Substances Control Act (USA).

NPRI National Pollutant Release Inventory (Canada).

DOT US Department of Transportation.