According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 05.09.2017

Revision date: 12.08.2017

Zinc Strip 2"x1/4"

SECTION 1: Identification

Product identifier

Product name: Zinc Strip 2"x1/4" Product code: S25910

Recommended use of the product and restriction on use

Relevant identified uses: Laboratory Uses advised against: Not determined or not applicable. Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

| Manufacturer: | Supplier: |
|------------------------|--------------------------|
| United States | United States |
| AquaPhoenix Scientific | Fisher Science Education |
| 860 Gitts Run Road | 6771 Silver Crest Road |
| Hanover | Nazareth |
| PA 17331 | PA 18064 |
| (717) 632-1291 | 800 955-1177 |

Emergency telephone number: United States

Emergency Telephone No.: 800-255-3924

SECTION 2: Hazard(s) identification

GHS classification:

Acute aquatic hazard, category 1 Chronic aquatic hazard, category 1

Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects

Precautionary statements:

P273 Avoid release to the environment

- P391 Collect spillage
- P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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| Identification | Name | Weight % |
|--------------------------|------|----------|
| CAS number: 7440-66-6 | Zinc | <100 |

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway Get medical advice/attention if you feel unwell

After skin contact:

Rinse affected area with soap and water If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes If symptoms develop or persist, seek medical attention

After swallowing:

Rinse mouth thoroughly Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Do not use water as an extinguisher

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors Contact with water emits flammable gas

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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Carbon monoxide and carbon dioxide may form upon combustion Heating causes a rise in pressure, risk of bursting and combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation Ensure air handling systems are operational Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing Sweep or scoop up solid material while minimizing dust generation Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation. Do not eat, drink, smoke or use personal products when handling chemical substances. Avoid generating/breathing dust. Do not expose material to water.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed. Keep container dry. Store in a cool, well-ventilated area. Store away from water.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.

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.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

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Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| Annoaranco | Light blue solid |
|---|----------------------------------|
| Appearance | <u> </u> |
| Odor | Odorless |
| Odor threshold | Not available |
| рН | Not available |
| Melting point/freezing point | 419 °C |
| Initial boiling point/range | 908 °C |
| Flash point (closed cup) | Not available |
| Evaporation rate | Not available |
| Flammability (solid, gas) | Not available |
| Upper flammability/explosive limit | Not available |
| Lower flammability/explosive limit | Not available |
| Vapor pressure | 1 mmHg at 487°C |
| Vapor density | Not available |
| Density | Not available |
| Relative density | 7.14 |
| Solubilities | Insoluble in water. |
| Partition coefficient (n-octanol/water) | Not available |
| Auto/Self-ignition temperature | 460 °C (860 ºF) |
| Decomposition temperature | Not available |
| Dynamic viscosity | Not available |
| Kinematic viscosity | Not available |
| Explosive properties | Not determined or not available. |
| Oxidizing properties | Not determined or not available. |

Other information

SECTION 10: Stability and reactivity

Reactivity:

Reacts violently in contact with water. **Chemical stability:**

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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Zinc Strip 2"x1/4"

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

Contact with water emits flammable gas.

Conditions to avoid:

Avoid exposure to water.

Incompatible materials:

Strong oxidizing agents, strong acids and bases.

Hazardous decomposition products:

Zinc oxides.

SECTION 11: Toxicological information

Acute toxicity

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

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

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

Product data: No data available.

Substance data: No data available.

Serious eye damage/irritation

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

Product data: No data available.

Substance data: No data available.

Respiratory or skin sensitization

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

Product data: No data available.

Substance data: No data available.

Carcinogenicity

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

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

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

Product data: No data available.

Substance data: No data available.

Reproductive toxicity

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

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

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

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

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

Product data: No data available.

Substance data: No data available.

Aspiration toxicity

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

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available. Other information: No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Very toxic to aquatic life

Product data: No data available.

Substance data:

| Name | Result |
|------|------------------------------|
| Zinc | LC50 - 1.1 - 2250mg/l (96 h) |
| | LC50 - 0.098 - 24.6 mg/l |

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

| UN number | Not regulated |
|-------------------------------|---------------|
| UN proper shipping name | Not regulated |
| UN transport hazard class(es) | None |
| Packing group | None |
| Environmental hazards | None |

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| Special precautions for user | None |
|------------------------------|------|

International Maritime Dangerous Goods (IMDG)

| UN number | Not regulated |
|-------------------------------|---------------|
| UN proper shipping name | Not regulated |
| UN transport hazard class(es) | None |
| Packing group | None |
| Environmental hazards | None |
| Special precautions for user | None |

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

| UN number | Not regulated |
|-------------------------------|---------------|
| UN proper shipping name | Not regulated |
| UN transport hazard class(es) | None |
| Packing group | None |
| Environmental hazards | None |
| Special precautions for user | None |

| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | | |
|---|------|--|
| Bulk Name | None | |
| Ship type | None | |
| Pollution category | None | |

SECTION 15: Regulatory information

United States regulations

| | (TSCA): | | | | |
|--|---|---------------------|-----------------|----------|--------|
| 7440-66-6 | Zinc | | | | Listed |
| Significant New U | Jse Rule (TSCA Se | ction 5): Not deter | mined. | | |
| Export notificatio | on under TSCA Sec | tion 12(b): Not de | termined. | | |
| SARA Section 311 | L/312 hazards: | | | | |
| Acute | Chronic | Fire | Pressure | Reactive | 5 |
| No | No | No | No | No | |
| | - | dous substances: | Not determined. | | |
| | 3 toxic chemicals: Zinc | | | | Listed |
| 5ARA Section 313 7440-66-6 | 3 toxic chemicals: | | | Listed | Listed |
| 5ARA Section 313 7440-66-6 CERCLA: | 3 toxic chemicals: Zinc Zinc | | | Listed | |
| 5ARA Section 313 7440-66-6 CERCLA: 7440-66-6 RCRA: Not determi | 3 toxic chemicals: Zinc Zinc | | | Listed | |
| 5ARA Section 313 7440-66-6 CERCLA: 7440-66-6 RCRA: Not determi | 3 toxic chemicals: Zinc Zinc Zinc ned. the Clean Air Act | | | Listed | |

New Jersey Right to Know:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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| | 7440-66-6 | Zinc | Listed | | | |
|----|-----------------------------|------|--------|--|--|--|
| Ne | New York Right to Know: | | | | | |
| | 7440-66-6 | Zinc | Listed | | | |
| Pe | Pennsylvania Right to Know: | | | | | |
| | 7440-66-6 | Zinc | Listed | | | |
| - | | | | | | |

California Proposition 65: Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 1-0-0 HMIS: 1-0-0-X Initial preparation date: 05.09.2017 Revision date: 12.08.2017

End of Safety Data Sheet

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