

SAFETY DATA SHEET

Creation Date 09-May-2012 Revision Date 26-Mar-2024 Revision Number 3

1. Identification

Product Name Zinc wire

Cat No.: 42706

CAS No 7440-66-6

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

None required

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life

3. Composition/Information on Ingredients

| Component | CAS No | Weight % |
|------------|-----------|----------|
| Zinc metal | 7440-66-6 | <= 100 |

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately

if symptoms occur.

Ingestion Do NOT induce vomiting. Get medical attention.

Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media Water

Flash Point Method -No information available

No information available

Autoignition Temperature 460 °C / 860 °F

Explosion Limits

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Nitrogen oxides (NOx). Sulfur oxides. Ammonia.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

HealthFlammabilityInstabilityPhysical hazards110N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust

formation.

Environmental Precautions Should not be released into the environment. Do not flush into surface water or sanitary

sewer system. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. **Up**

7. Handling and storage

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid Handling

contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible

Materials. Strong oxidizing agents. Strong acids. Strong bases. Amines. Combustible

material. Peroxides. Metals.

Exposure controls / personal protection

This product does not contain any hazardous materials with occupational exposure **Exposure Guidelines**

limitsestablished by the region specific regulatory bodies.

Engineering Measures None under normal use conditions.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection No protective equipment is needed under normal use conditions.

Recommended Filter type: Particle filter.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures**

9. Physical and chemical properties

Physical State Solid: Various Form

Appearance Grey

Odor No information available **Odor Threshold** No information available

No information available 419 °C / 786.2 °F Melting Point/Range

907 °C / 1664.6 °F **Boiling Point/Range** Flash Point No information available **Evaporation Rate** Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available No data available Lower **Vapor Pressure** 1.3 mbar @ 478 °C **Vapor Density** Not applicable

Specific Gravity 7.140

Solubility Insoluble in water Partition coefficient; n-octanol/water No data available 460 °C / 860 °F **Autoignition Temperature Decomposition Temperature** No information available

Viscosity Not applicable

Molecular Formula Zn **Molecular Weight** 65.36

10. Stability and reactivity

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None known, based on information available Reactive Hazard

Stability Stable under normal conditions.

Incompatible products. Excess heat. Avoid dust formation. **Conditions to Avoid**

Incompatible Materials Strong oxidizing agents, Strong acids, Strong bases, Amines, Combustible material,

Peroxides, Metals

Hazardous Decomposition Products Nitrogen oxides (NOx), Sulfur oxides, Ammonia

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information No acute toxicity information is available for this product

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------|------------------------|-------------|-----------------|
| Zinc metal | LD50 = 630 mg/kg (Rat) | Not listed | Not listed |

Toxicologically Synergistic

No information available

Products

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

No information available Irritation

Sensitization No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen. Carcinogenicity

| Compo | onent | CAS No | IARC | NTP | ACGIH | OSHA | Mexico |
|--------|-------|-----------|------------|------------|------------|------------|------------|
| Zinc n | netal | 7440-66-6 | Not listed |

No information available **Mutagenic Effects**

No information available. **Reproductive Effects**

No information available. **Developmental Effects**

No information available. **Teratogenicity**

STOT - single exposure None known STOT - repeated exposure None known

No information available **Aspiration hazard**

Symptoms / effects,both acute and No information available

delayed

Endocrine Disruptor Information No information available

See actual entry in RTECS for complete information. Other Adverse Effects

12. Ecological information

Ecotoxicity

Contains a substance which is:. Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
|------------|--------------------------|-------------------------------|------------|----------------------------|
| Zinc metal | EC50: 0.09 - 0.125 mg/L, | LC50: = 0.41 mg/L, 96h | Not listed | EC50: 0.139 - 0.908 mg/L, |
| | 72h static | static (Oncorhynchus | | 48h Static (Daphnia magna) |
| | (Pseudokirchneriella | mykiss) | | |
| | subcapitata) | LC50: = 0.59 mg/L, 96h | | |
| | EC50: 0.11 - 0.271 mg/L, | semi-static (Oncorhynchus | | |
| | 96h static | mykiss) | | |
| | (Pseudokirchneriella | LC50: 2.16 - 3.05 mg/L, 96h | | |
| | subcapitata) | flow-through (Pimephales | | |
| | | promelas) | | |
| | | LC50: 0.211 - 0.269 mg/L, | | |
| | | 96h semi-static (Pimephales | | |
| | | promelas) | | |
| | | LC50: = 2.66 mg/L, 96h | | |
| | | static (Pimephales | | |
| | | promelas) | | |
| | | LC50: = 30 mg/L, 96h | | |
| | | (Cyprinus carpio) | | |
| | | LC50: = 0.45 mg/L, 96h | | |
| | | semi-static (Cyprinus carpio) | | |
| | | LC50: = 7.8 mg/L, 96h static | | |
| | | (Cyprinus carpio) | | |
| | | LC50: = 0.24 mg/L, 96h | | |
| | | flow-through (Oncorhynchus | | |
| | | mykiss) | | |
| | | LC50: = 3.5 mg/L, 96h static | | |
| | | (Lepomis macrochirus) | | |
| | | , | | |

Persistence and Degradability Insoluble in water

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

| | 13. Disposal considerations |
|------------------------|--|
| Waste Disposal Methods | 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 to ensure complete and accurate classification.

| 14. Transport information | | | |
|---------------------------|---------------|--|--|
| DOT | Not regulated | | |
| _TDG | Not regulated | | |
| <u>IATA</u> | Not regulated | | |
| IMDG/IMO | Not regulated | | |

15. Regulatory information

United States of America Inventory

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|------------|-----------|------|---|-----------------------------|
| Zinc metal | 7440-66-6 | X | ACTIVE | - |

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

| Component | CAS No | TSCA 12(b) - Notices of Export |
|------------|-----------|--------------------------------|
| Zinc metal | 7440-66-6 | Section 5 |
| | | Section 6 |

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component | CAS No | DSL | NDSL | EINECS | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|------------|-----------|-----|------|-----------|-------|------|------|------|-------|----------|
| Zinc metal | 7440-66-6 | Х | - | 231-175-3 | X | Χ | | Х | X | KE-35518 |

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. 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.

| Component | CAS No | Weight % | SARA 313 - Threshold Values % | SARA 313 - Reporting threasholds |
|------------|-----------|----------|----------------------------------|----------------------------------|
| Zinc metal | 7440-66-6 | <= 100 | 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)

| Component | CWA - Hazardous Substances | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | |
|------------|-------------------------------|--------------------------------|------------------------|---------------------------|--|
| Zinc metal | - | - | X | X | |

Clean Air Act Not applicable

OSHA - Occupational Safety and N

Health Administration

Not applicable

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) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

| Component | Hazardous Substances RQs | CERCLA Extremely Hazardous Substances RQs | SARA Reportable Quantity (RQ) |
|------------|-----------------------------|---|-------------------------------|
| Zinc metal | 1000 lb | - | 454 kg 1000 lb |

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|------------|---------------|------------|--------------|----------|--------------|
| Zinc metal | X | X | X | = | X |

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH Not applicable

| Component | CAS No | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|------------|-----------|---|---|---|
| Zinc metal | 7440-66-6 | - | Use restricted. See item 75. (see link for restriction details) | - |

Safety, health and environmental regulations/legislation specific for the substance or mixture

| C | omponent | CAS No | OECD HPV | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|---|------------|-----------|----------|---------------------------------|------------------------------|--|
| Z | Zinc metal | 7440-66-6 | Listed | Not applicable | Not applicable | Not applicable |

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

| Component | CAS No | Seveso III Directive (2012/18/EC) - (2012/18/EC) - (2012/18/EC) - Qualifying Quantities | | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|------------|-----------|---|-------------------|-------------------------------|------------------------------------|
| | | for Major Accident | for Safety Report | | |
| | | Notification | Requirements | | |
| Zinc metal | 7440-66-6 | Not applicable | Not applicable | Not applicable | Not applicable |

16. Other information

Prepared By Health, Safety and Environmental Department

Email: chem.techinfo@thermofisher.com

www.thermofisher.com

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 09-May-2012

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 26-Mar-2024

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 26-Mar-2024

Revision Summary New emergency telephone response service provider.

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 SDS