

SAFETY DATA SHEET

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

1. Identification

Product Name Zinc foil

Cat No.: 10436

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

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.

None under normal use conditions. **Engineering Measures**

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 No information available

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

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

Evaporation Rate

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

LD50 Dermal Component LD50 Oral 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

Compor	ent	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Zinc me	tal	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							
	hazardous waste. Chemical waste generators must also consult local, regional, and						

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	Х	Χ		Х	Х	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

Not applicable

Health Administration

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

Compone	ent Massachuse	etts New Jersey	/ Pennsylvan	ia Illinois	Rhode Island
Zinc met	al 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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous
					Substances (RoHS)
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

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www.thermofisher.com

 Creation Date
 09-May-2012

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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