

SAFETY DATA SHEET

Revision Date 28-Mar-2024

Revision Number 5

1. Identification

Product Name

Erbium pieces, distilled dendritic

Cat No. :

CAS No Synonyms

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

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

<u>Classification</u> Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

12255

7440-52-0

No information available

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

Label Elements None required

<u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Erbium			Weight %		
		7440-52-0	99.9		
	4.	First-aid measures			
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minu 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 fre	Remove to fresh air. Get medical attention immediately if symptoms occur.			
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.				
Most important symptoms and effects	None reasonably foreseeable.				
Notes to Physician Treat symptomatically					

5. Fire-fighting measures

Suitable Extinguishing Media	Carbon dioxide (CO 2). Dry chemical.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
0 1	No information available No data available
Explosion Limits	
Explosion Limits Upper	No data available No data available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

None known.

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 Health 0	Flammability 2	Instability 0	Physical hazards N/A			
	6. Accidental re	lease measures				
Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid formation.						
Environmental Precautions Should not be released into the environment. See Section 12 for additional Ecolog						

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

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents. Strong acids. Halogens.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas.
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	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended Filter type:	Particulates filter conforming to EN 143.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

9. Physical and chemical properties
Solid
Grey
No information available
No information available
No information available
1529 °C / 2784.2 °F
2863 °C / 5185.4 °F
No information available
Not applicable
No information available
No data available
No data available
No information available
Not applicable
No information available
No information available
vater No data available
No information available
No information available
Not applicable
Er
167.26

<u> </u>							
10. Stability and reactivity							
Reactive Hazard None known, based on information available							
Stability	Stable under norm	Stable under normal conditions.					
Conditions to Avoid Incompatible products.							
Incompatible Materials Strong oxidizing agents, Strong acids, Halogens							
Hazardous Decomposition Produ	cts None under norma	al use conditions					
Hazardous Polymerization	Hazardous polyme	erization does not o	occur.				
Hazardous Reactions	None under norma	al processing.					
	11. Toxico	ological info	ormation				
Acute Toxicity							
Product Information	No acute toxicity in	nformation is availa	able for this produc	t			
Component Information Toxicologically Synergistic	No information ava	ailable					
Products Delayed and immediate effects as	well as chronic effe	cts from short an	d long-term expo	sure			
Irritation	No information ava	ailable					
Sensitization	No information ava	No information available					
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Erbium 7440-52-0	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects	No information ava	ailable					
Reproductive Effects	No information ava	ailable.					
Developmental Effects	No information ava	No information available.					
Teratogenicity	No information ava	No information available.					
STOT - single exposure STOT - repeated exposure	None known None known						
Aspiration hazard	No information ava	ailable					
Symptoms / effects,both acute a delayed	nd No information ava	ailable					
Endocrine Disruptor Information	No information ava	ailable					
Other Adverse Effects	The toxicological p	properties have not	been fully investig	ated.			
12. Ecological information							

Ecotoxicity Do not empty into drains.

Persistence and Degradability

Insoluble in water

Bioaccumulation/ Accumulation Mobility	No information available. 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			
_ <u>TDG</u> IATA_	Not regulated			
	Not regulated			
IMDG/IMO	Not regulated			

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Erbium	7440-52-0	Х	ACTIVE	-

15. Regulatory information

Legend:

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

X - Listed '-' - Not Listed

- - NOL LISIEU

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

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
Erbium	7440-52-0	-	Х	231-160-1	-	Х		-	-	-

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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

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)	Not applicable		
Clean Air Act	Not applicable		
OSHA - Occupational Safety and Health Administration	Not applicable		

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N 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	0	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Erbium	7440-52-0	-	-	-

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)
Erbium	7440-52-0	Not applicable	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) - Qualifying Quantities	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		for Major Accident Notification	for Safety Report Requirements		
Erbium	7440-52-0	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
Revision Date	28-Mar-2024
Print Date	28-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

