

# **SAFETY DATA SHEET**

Creation Date 07-Feb-2018 Revision Date 30-Mar-2024 Revision Number 3

## 1. Identification

Product Name Tantalum wire

Cat No.: 10350

**CAS No** 7440-25-7

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**

## **Hazard Statements**

Precautionary Statements
Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Tantalum	7440-25-7	<=100

## 4. First-aid measures

**General Advice** If symptoms persist, call a physician.

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. 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 approved class D extinguishers. Do not use water or foam.

Unsuitable Extinguishing Media Water may be ineffective

**Flash Point Method -**No information available
No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

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**

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

#### **Hazardous Combustion Products**

Tantalum oxide.

## **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 Flammability Instability Physical hazards

1 3 0 -

## 6. Accidental release measures

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

formation.

**Environmental Precautions** Should not be released into the environment.

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

7. Handling and storage

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

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

Storage. Keep in a dry place. Keep away from acids. Incompatible Materials. Acids. Oxidizing

agent.

## 8. Exposure controls / personal protection

### **Exposure Guidelines**

Component ACGIH TLV		LV OSHA PEL NIOSH		Mexico OEL (TWA)
Tantalum		(Vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 2500 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
		TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	_
		_	STEL: 10 mg/m <sup>3</sup>	

#### Legend

OSHA - Occupational Safety and Health Administration

NIOSH: NIOSH - National Institute for Occupational Safety and Health

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

Personal Protective Equipment

**Eye/face Protection** Wear appropriate protective eveglasses or chemical safety googles as described by

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

EN166.

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

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

Particle filter. Recommended Filter type:

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

## 9. Physical and chemical properties

Solid **Physical State** Grey - Black **Appearance** Odor Odorless

**Odor Threshold** No information available

Not applicable

**Melting Point/Range** 2996 °C / 5424.8 °F **Boiling Point/Range** 5429 °C / 9804.2 °F **Flash Point** No information available **Evaporation Rate** Not applicable

Flammability (solid,gas) No information available Flammability or explosive limits

No data available Upper Lower No data available

**Vapor Pressure** No information available **Vapor Density** Not applicable **Specific Gravity** 16.69 g/cm3

No information available Solubility

No data available No information available

Not applicable

No information available

Partition coefficient; n-octanol/water

**Autoignition Temperature Decomposition Temperature** 

Viscosity

Molecular FormulaTaMolecular Weight180.95

## 10. Stability and reactivity

Reactive Hazard Yes

**Stability** Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Acids, Oxidizing agent

Hazardous Decomposition Products Tantalum oxide

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

**Product Information** 

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tantalum	Not listed	Not listed	LC50 > 5.18 mg/L (Rat) 4 h

**Toxicologically Synergistic** 

No information available

**Products** 

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

Irritation No information available

Sensitization 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
Tantalum	7440-25-7	Not listed				

Mutagenic Effects No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

**Teratogenicity** No information available.

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

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

#### Other Adverse Effects

The toxicological properties have not been fully investigated.

## 12. Ecological information

#### **Ecotoxicity**

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability Insoluble in water May persist

**Bioaccumulation/ Accumulation**No information available.

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

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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 TDG IATA	Not regulated					
_TDG_	Not regulated					
<u>IATA</u>	Not regulated					
MDG/IMO Not regulated						
15. Regulatory information						

## **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Tantalum	7440-25-7	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

## **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
Tantalum	7440-25-7	Х	-	231-135-5	Х	Х		Х	Х	KE-33006

**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

Not applicable

Health Administration

## **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

Component		New Jersey	Pennsylvania	Illinois	Rhode Island
Tantalum	X	X	X	-	X

## **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

This product does not contain any DHS chemicals.

Security

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Not applicable

1	_				
	Component	CAS No	REACH (1907/2006) -	REACH (1907/2006) -	REACH Regulation (EC
	·		Annex XIV - Substances	Annex XVII - Restrictions	1907/2006) article 59 -
			Subject to Authorization	on Certain Dangerous	Candidate List of
				Substances	Substances of Very High
					Concern (SVHC)
	Tantalum	7440-25-7	-	-	-

## 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)
Tantalum	7440-25-7	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		
Tantalum	7440-25-7	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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 30-Mar-2024

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 30-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**