



Page 1/4 Printing date 08/29/2018 Revision date 08/27/2018 Version 1

1.643	Version 1
1 Identification	
Product identifier	
Product name: <u>Tantalum foil</u>	
Stock number: 00331 CAS Number: 7440-25-7	
EC number: 231-135-5	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660	
Fax: 800-322-4757 Email: tech@alfa.com	
www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928	3-0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS). Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable	
Hazard pictograms Not applicable Signal word Not applicable	
Hazard statements Not applicable WHMIS classification Not controlled	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH III Health (acute effects) = 0 FIRE III Flammability = 0 REACTIVITY III Physical Hazard = 0	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
7440-25-7 Tantalum Concentration: ≤100%	
Identification number(s): EC number: 231-135-5	
4 First-aid measures	
Description of first aid measures	
General information No special measures required. After inhalation Seek medical treatment in case of complaints	
After skin contact Generally the product does not irritate the skin. After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.	
After swallowing if symptoms persist consult doctor. Information for doctor	
Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents Special powder for metal fires. Do not use water.	
For safety reasons unsuitable extinguishing agents Water	
Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Tantalum oxide	
Advice for firefighters Protective equipment: No special measures required.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures Not required.	
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Pick up mechanically.	
Prevention of secondary hazards: No special measures required. Reference to other sections	
See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.	(Control or reserve O)
	(Contd. on page 2)

Product name: Tantalum foil

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See Section 13 for disposal information Protective Action Criteria for Chemic PAC-1: 10 mg/m3 PAC-2: 11 mg/m3 PAC-3: 64 mg/m3				
7 Handling and storage				
Handling				
Precautions for safe handling				
Keep container tightly sealed. Store in cool, dry place in tightly closed	containers.			
Information about protection against	explosions and fires: No special measures required.			
Conditions for safe storage, includin Storage	g any incompatibilities			
Requirements to be met by storeroor	ms and receptacles: No special requirements.			
Information about storage in one con Not required.	nmon storage facility:			
Do not store together with acids.				
Further information about storage container tightly sealed.	inaluons:			
Store in cool, dry conditions in well seal Specific end use(s) No further relevan				
8 Exposure controls/personal prot	rection			
C C	of technical systems: No further data; see section 7.			
Control parameters				
Components with limit values that re 7440-25-7 Tantalum (100.0%)	quire monitoring at the workplace:			
PEL (USA) Long-term value: 5 mg/m	3			
metal	/w-3			
REL (USA) Short-term value: 10 mg/ Long-term value: 5 mg/m	///* 3			
Metal TIV(/ISA) metal: TIV(with drawn dw	e te jezufficient dete			
TLV (USA) metal; TLV withdrawn du EL (Canada) Long-term value: 5 mg/m				
metal				
EV (Canada) Long-term value: 10 mg/r metal and oxide (total dus	n ³ st			
Additional information: No data	<i></i>			
Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Maintain an ergonomically appropriate working environment. Breathing equipment: Not required. Protection of hands: Not required. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.				
9 Physical and chemical properties Information on basic physical and chemical properties				
General Information	iennical properties			
Appearance: Form:	Solid in various forms			
Odor:	Odorless			
Odor threshold: pH-value:	Not determined. Not applicable.			
Change in condition				
Melting point/Melting range:	2996 °C (5425 °F) 5429 °C (9804 °F)			
Boiling point/Boiling range: Sublimation temperature / start:	5429 °C (9804 °F) Not determined			
Flash point:	Not determined			
Flammability (solid, gaseous)	Not determined.			
Ignition temperature: Decomposition temperature:	Not determined Not determined			
Auto igniting:	Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower:	Not determined			
Upper: Vapor pressure:	Not determined Not applicable.			
Density at 20 °C (68 °F):	16.69 g/cm³ (139.278 lbs/gal)			
Relative density Vapor density	Not determined. Not applicable.			
Evaporation rate	Not applicable.			
Solubility in / Miscibility with Water:	Insoluble			
Partition coefficient (n-octanol/water)				
Viscosity: dynamic:	Not applicable.			
kinematic:	Not applicable.			
Other information	No further relevant information available.			

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10 Stability and reactivity Reactivity to information information Reactivity to information information Reactivity to information information Reactivity to information information Reactivity to infor			
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Chemical stability Solido under momented storage consilions, with not occur if used and stored according to specifications. Prossibility of takandous reactions to kingenges consolitons from the consolito shown or consolitons for the storage from the the stor			
Incompatible materials, Acids, Hazakedua decompatible products: Tantolum oxide 11 Toxicological Information Information on cocketogical effects Loc CO values that are relevant for classification: No data Shin inflation or correstor. Maximum Correstor. Shin inflation or correstor. Shin inflation of data or developed profiles brown. General Correstor. The Regarding of the correstor. No classification of data or developed profiles brown. Specific target corpus system toxicity - separed exposure. No effect brown. Specific target corpus system toxicity - separed exposure. No effect brown. Additional toxicological information. Toxicity Additional toxicological information. Toxicity Additional toxicological information evaluable. Biopedical carget and the profiles brown. Additional toxicological information evaluable. Biopedical carget and the substance information evaluable. Biopedical carget and bi	Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not of Possibility of hazardous reactions No dangerous reactions known	ccur if used and stored according to specifications.	
Information on toxicological effects acce backs of the Ends of the Ends of the Ends of the No data Struct backs, The Regist of Toxic Ends of the Ends of the No data Struct backs, Toxic Ends of the Ends	Incompatible materials: Acids		
Information on toxicological effects Acute toxicity. The Registry of Toxic Effects at Chemical Substances (RTECS) contains acute toxicity data for this aubstance. Set in initiation or correction: No limited teletion: No data Set initiation or correction: No limited teletion: No data Set initiation or correction: No limited teletion: No data Set initiation or correction: No limited teletion: No data Set initiation or correction: No limited teletion: No data Set initiation or correction: No limited teletion: No data Set initiation: No effects known: Set initiation: Set	11 Toxicological information		
Chronogenety, C	Information on toxicological effects Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: No irritant effect. Eye irritation or corrosion: No irritant effect. Sensitization: No sensitizing effects known. Germ cell mutanenicity: No effects known.		
I. Reproductive Existing: No effects known, Specific larget organ system toxicity - single exposure: No effects known, Specific larget organ system toxicity - single exposure: No effects known, Aspiration hazard: No effects known, Meditional toxicity - single exposure: No effects known, Aspiration hazard: No effects known, Meditional toxicity - single exposure: No effects known, Aspiration hazard: No effects known, Meditional toxicity - single exposure: No effects known, Aspiration hazard: No effects known, Meditional toxicity - single exposure: No effects known, Aspiration hazard: No effects known, Meditional toxicity - single exposure: No effects known, Aspiration hazard: No effects known, Meditional toxicity - single exposure: No effects known, Aspiration hazard: No effects known, Meditional toxicity - single exposure: No effects known, Aspiration hazard: No effects known, Meditional toxicity - single exposure: No effects known, Aspiration Aspiration No effects known, Meditional toxicity - single exposure: No effects known, Aspiration No effects known, Meditional toxicity - single exposure: No effects known, Aspiration No effects known, Meditional toxicity - single exposure: No effects known, Meditional toxicity - single exposure: No effects known, Aspiration No effects known, Meditional toxicity - single exposure: No effects known, Aspiration No effects known, Meditional toxicity - single exposure: No effects known, Meditional toxicity - single exposure: No effects known, Meditional toxicity - single exposure: No effects known, Meditional toxicity - single exposure Meditional toxicity - single exposure - single exposure Meditional toxicity - single exposure Meditional to	Carcinogenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumor No classification data on carcinogenic properties of this material is available from	igenic and/or carcinogenic and/or neoplastic data for this substance. n the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity - single exposure: No effects known. Aspiration toxicity: No effects known. Additional toxicity: No turble: relevant information available. Persistence and degradability No turble: relevant information available. Recommutative potential No turble: relevant information available. Additional tecological Information: Care of the substance of the onvironment without proper governmental permits. Avoid transfer into the environment. Recults of PET and VPA assessment PMB: No: policible. Other adverse effects No further relevant information available. 13 Disposal consideration: Wasia transmort in relevant Wasia transmort information VM Age addition: Masia transmort information VM Age addition: Special more than a tecological information available. 13 Disposal consideration: VM age addition: VM age addition: VM age addition: VM age addition: VM age addit	Reproductive toxicity: No effects known.		
Application based: No official known. Subactive Contronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not hilly known. 12 Ecological information Additional toxicological information available. Persistence and degradability: No further relevant information available. Additional cocicly: No further relevant information available. Additional ecological information: Coci col allow information: Cor col allow information: Cor col allow issue available available. Additional ecological information: Cor col allow issue available. Additional ecological information: Cor col allow issue available. Other adverse effects No further relevant information available. 13 Disposal consult stale, local or national regulations to ensure proper disposal. Uncleance apckaging:: Recommendation: Consult stale, local or national regulations. Variation: UP repose shipping name DOT, ADN, ADN, MING, IATA DOT, ADN, ADN, IMAG, IATA DOT, ADN, ADN, IATA Packing group DOT, ADN, MING, IATA DOT, ADN, MING, IATA Not applicable		1	
Subacute to chronic toxicity: No effects known. Additional locatical information 12 Ecological information Toricity: Additional locatical information available. Persistence and degradability No further relevant information available. Resistence and degradability No further relevant information available. Resistence and degradability No further relevant information available. Resistence and degradability No further relevant information available. Additional is to be released to the environment without proper governmental permits. Avoid transfer if to the environment. Results of PB1 and VP4 assessment PV-B1. Not PD1 indications Waste treatment methods Waste treatment methods Interactional information Vinter adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Vinter adverse effects No further relevant information available. 14 Transport information UN-robershold Disposal considerations Vinter adverse effects No further relevant information available. DY, ADN, MINOG, IATA Not applicable DY, ADN, ADN, MINOG, IATA			
Toricity Aguistic Society: No further relevant information available. Persistence and degradability No further relevant information available. Persistence and degradability No further relevant information available. Multiple Multiple Persistence and degradability No further relevant information available. Multiple Control notes The relevant information: Orneral notes The relevant information available. Advidt transfer into the environment without proper governmental permits. Advidt transfer into the environment. Result so of PET and PV-Base assessment Pyrep: Not applicable. Other adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Recommendation: Disposal must be made according to official regulations. 14 Transport information UN-Number DOT, ADN, MDG, IATA Not applicable DOT, ADN, MDG, IATA Not applicable DOT, ADN, MDG, IATA Rescing group Packing group OT, ADN, MDG, IATA Not applicable DOT, ADN, MDG, IATA Not applicable <td>Subacute to chronic toxicity: No effects known.</td> <td>and chronic toxicity of this substance is not fully known.</td> <td></td>	Subacute to chronic toxicity: No effects known.	and chronic toxicity of this substance is not fully known.	
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Other adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information UN-Number DOT, ADN, IMDG, IATA Number DOT, ADR, ADN, IMDG, IATA Not applicable Transport Information UN proper shipping name DOT, ADR, ADN, IMDG, IATA Not applicable Packing group DOT, ADR, ADN, IMDG, IATA Class Packing group DOT, ADR, MDD, IATA Class Packing group DOT, ADR, MDD, IATA Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Mot WW "Model Regulation": Not applicable To Regulation for user Not applicable Transport/Additional information: DOT DOT DOT Marine Pollutart (DOT): Not applicable Thransport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT <td>Do not allow material to be released to the environment without proper governm Avoid transfer into the environment. Results of PBT and vPvB assessment</td> <td>nental permits.</td> <td></td>	Do not allow material to be released to the environment without proper governm Avoid transfer into the environment. Results of PBT and vPvB assessment	nental permits.	
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Prop 65 - Developmental toxicity, female Substance is not listed.	Prop 65 - Chemicals known to cause cancer Substance is not listed.		
			(Contd. on page 4) USA

Product name: Tantalum foil

(Contd. of page 3)

USA

Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. market and use must be observed.

Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Information of this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
 Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date and version number are in the header of each page.
 Abbreviations and acronyms: ICAO: International Civil Aviation Organisation RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association ENECS: Curopean Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA)
 WHMIS: Workplace Hazardous Materials Information System (Canada) LD50: Lethal concentration, 50 percent PBT: Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA)
 NTP: National ToxicoDay Program (USA)
 IAPC: International Agercy for Research on Cancer EPA: Environmental Protection Agency (USA)