

15117 Washington Highway
P. O. Box 1055 Ashland VA

Phone: (804) 227-3381
Fax: (804) 227-3404

CHEMTREC: (800) 424-9300
Poison Center: (800) 562-8236

Safety Data Sheet

Section 1: Product and Company Information

Product Name: Tantalum
Company: Fine Metals Corporation
15117 Washington Hwy
Ashland, VA 23005

For more information call: 1-804-227-3381
(Monday - Friday 9-4:30)

In case of emergency: Transportation (Chemtrec) 1-800-424-9300
Poison Center: 1-800-562-8236
(24 hours/day, 7 days/week)

Section 2: HAZARD IDENTIFICATION

This material is not considered hazardous and is not classified under GHS

Emergency Overview

Emergency Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC and their various amendments and adaptations

Hazard Statements: None.

Precautionary Statements:

Prevention: None.

Response: None.

Appearance/Form:

Form: Solid

Color: Metallic solid

Odor: None

Hazard Summary: Negligible fire hazard in bulk form. Dust/air mixture may ignite or explode when exposed to heat or flames. Not normally considered a health hazard as sold.

Acute Health Effects

Skin: May cause skin irritation.

Eyes: Contact may cause eye irritation.

Ingestion: Low ingestion hazard in normal use.

Inhalation: May cause respiratory irritation.

Chronic Exposure: Low hazard for usual industrial or commercial handling.

Aggravated Medical No known effect.

Conditions:

Carcinogenicity: Does not contain any substances listed by IARC (International Agency for Research on Cancer), NTP (National Toxicology Program), OSHA (Occupational Safety and Health Administration), ACGIH (American Conference for Governmental Industrial Hygienists) or EU (European Union)

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Section 3: Composition/Information on Ingredients

Chemical Name	CAS-No.		Reach #	
Tantalum	7440-25-7	Not available	Not available	>99 wt%

Section 4: FIRST AID MEASURES

Eye Contact: Flush eyes with water for at least 15 minutes. Seek medical attention.

Skin Contact: Wash with soap and water. If adverse effects occur seek medical attention.

Inhalation: If cough, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms persist.

Ingestion: Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person. Seek medical attention.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing Media: Use a Class D dry powder extinguisher, dolomite, dry sand, graphite, or soda ash.

Unsuitable extinguishing media: Do not use water.

Specific hazards during firefighting: Dusts at a sufficient concentrations can form explosive mixtures with air. Toxic metal fumes may form in fire.

Special protective equipment for firefighters: Move container or forms from fire area if you can do it without risk. Wear suitable protective equipment. In the event of fire, wear self-contained breathing apparatus and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid breathing (dust, vapor, mist, gas). Practice good chemical hygiene during and after use.

Environmental Precautions: Do not allow material to be released to the environment without proper governmental permits.

Methods for Cleaning Up: Sweep up and place in suitable metal containers for reclamation or later disposal. If appreciable dust or fine particulate is present in residue, consider clean up using vacuum cleaner rated for use with combustible/flammable dusts.

Section 7: HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Do not breathe dust. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Take precautionary measures against static discharge.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Do not store together with strong oxidizing agents. Keep in properly labeled containers.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation or other means to maintain employee exposure as far below limits as possible

Component Exposure Limits

Component	Location	Value
Tantalum	OSHA OEL TWA	5
	NIOSH REL TWA	5
	NIOSH REL STEL	10
	Canada - AB,BC,PQ TWA	5
	Canada - ON TWA	10
	Europe TWA	5
	Denmark STEL	10
	Germany TWA (Inhalable)	4
	Germany TWA	1.5

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Australia, NZ, Singapore	5
UK WEL TWA	5
UK WEL STEL	10

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Respiratory Protection: Not normally needed. If ventilation is inadequate and this material is handled at elevated temperatures or dust/fumes/mists are generated a NIOSH/MSHA approved air purifying respirator with a manufacturers approved cartridge or canister may be permissible under certain circumstances.

Eye/Face: Wear safety glasses or goggles as appropriate to the task performed.

Skin Protection: Not required under normal conditions.

Work Hygienic Practices: Practice good chemical hygiene.

Comments: None

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Odor: None

Color: Blue-grey

Melting Point: 2996-3017° C

Boiling Point: 5429-5458° C

Vapor Pressure: 1 kpa @3024° C

Vapor Density (air = 1): N/A

Evaporation Rate: N/A

Solubility In Water: Insoluble

Specific Gravity (water = 1): 16.69

Atomic Weight: 180.95

% Volatility By Volume: No information available

Density: 16.69

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions and usage.

Incompatible Materials: Strong acids,

Hazardous Decomposition Products: Thermal decomposition may release toxic and/or hazardous gases.

Products:

Possibility of Hazardous Reactions: No information available

Reactions:

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50 and LC50 not available

Chronic Toxicity: There are no reports of adverse health effects in industrially exposed workers. Massive doses of tantalum given by intratracheal route to rats have produced respiratory tract lesions. In contact with tissue, metallic tantalum is inert.

Reproductive Toxicity: Not available

Mutagenicity: Not available

Carcinogenicity: Not listed

Other: None

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Because tantalum oxide is very insoluble, there is almost no tantalum to be found in natural waters. Few attempts have been made to measure its level in soils, revealing a range from 0.1 to 3 ppm. Only tiny amounts of tantalum are taken by plants: the amount in vegetation rarely exceeds 5 ppb.

Persistence/Degradability: Not available

Bioaccumulation/Accumulation: Low

Mobility in Environment: Low mobility due to low solubility.

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Section 13: DISPOSAL CONSIDERATIONS

Waste Classification: May be recycled.

All disposal activities must comply with federal, state, provincial and local regulations.

Section 14: TRANSPORT INFORMATION

US DOT (ground): Not regulated

ICAO/IATA (air): Not regulated

IMO/IMDG (water): Not regulated

Special Provisions: Not regulated

Section 15: REGULATORY INFORMATION

UNITED STATES

SARA Title III (Superfund Amendments and Reauthorization Act) 313 Reportable Ingredients: No

TSCA (Toxic Substance Control Act) status: Not regulated

STATE REGULATIONS

The following components appear in one or more of the following states hazardous substances

Component	CAS #	CA	MA	MN	NJ
Tantalum	7440-25-7	No	No	Yes	Yes

California Proposition 65: This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

CANADA

WHMIS (Workplace Hazardous Materials Information System):

Not regulated

Domestic Substance List (Inventory): All components of this product are included in inventory, exempt or notified.

GENERAL COMMENTS

None

Section 16: OTHER INFORMATION

Information Contact: sds@finemetalscorp.com

Issue Date: 7/9/1999

Revision Date: 1/1/2015

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HMIS® (11)		NFPA	
Health:	0		
Flammability:	0	0	
Reactivity:	0	0	0
PPE:	B		

Ratings range from 0 (no hazard) to 4 (severe hazard)

The information contained in this SDS is believed to be correct, but is not all inclusive and shall be used only as a guide. Fine Metals Corporation shall not be liable for any damage resulting from handling or from contact with the product listed in the SDS. Any comments or questions should be directed to:

Safety Manager
Fine Metals Corporation
15117 Washington Highway
P O Box 1055
Ashland VA 23005
(804) 227-3381

