



SAFETY DATA SHEET

MATERION

1. Product and company identification

Name of the chemical Tantalum Product

Other means of identification
SDS number 31

Recommended use of the chemical and restrictions on use
Recommended use Not available.
Recommended restrictions None known.

Manufacturer/Importer/Supplier/
Distributor information Materion Advanced Materials Group

Address 42 Mt. Ebo Road South
Brewster NY 10509
United States

Telephone Supplier Phone 1+845.279.0900

E-mail Not available.

Contact person Not available.

Emergency telephone
number Chemtrec 1+703.527.3887

2. Hazards identification

Hazard classification

Physical hazards Flammable solids Category 2

Health hazards Not classified.

Environmental hazards Not classified.

Label elements

Symbols



Signal word

None.

Hazard statement

The Material as sold in solid form is generally not considered hazardous. However, if the process involves grinding, melting, cutting or any other process that causes a release of dust or fumes, hazardous levels of airborne particulate could be generated.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use explosion-proof electrical/ventilating/lighting equipment. Wear protective gloves/protective clothing/eye protection/face protection.

Response

In case of fire: Use appropriate media for extinction.

Storage

Store away from incompatible materials.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

None known.

Supplemental information

None.

3. Composition/information on ingredients

Substance

Chemical properties	CAS Number	Concentration (%)
Tantalum	7440-25-7	99.9 - 100

4. First aid measures

First aid measures for different exposure routes

Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Ingestion	Not available.

Most important symptoms and effects Not available.

Personal protection for first-aid responders Not available.

Notes to physician Not available.

5. Fire-fighting measures

Extinguishing media DRY sand, sodium chloride powder, graphite powder or Met-L-X powder.

Extinguishing media to avoid None.

Specific hazards during fire fighting None.

Special fire fighting procedures None.

Protection of fire-fighters None.

6. Accidental release measures

Personal precautions Not available.

Environmental precautions Not available.

Spill cleanup methods Not available.

7. Handling and storage

Handling Not available.

Storage Not available.

8. Exposure controls/personal protection

Exposure limits

Taiwan. OELs (Standards of Permissible Exposure Limits at Workplace, OSHA No. 10302007931), as amended

Material	Type	Value	Form
Tantalum Product	STEL	10 mg/m ³	Dust.
Components	Type	Value	Form
Tantalum (CAS 7440-25-7)	STEL	10 mg/m ³	Dust.
Taiwan. OELs. (Standards of Permissible Exposure Limits at Workplace)			
Material	Type	Value	Form
Tantalum Product	TWA	5 mg/m ³	Dust.
Components	Type	Value	Form
Tantalum (CAS 7440-25-7)	TWA	5 mg/m ³	Dust.

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Not available.

Individual protection measures, such as personal protective equipment

Eye/face protection Not available.

Skin protection

Hand protection Not available.

Other Not available.

Respiratory protection Not available.

Thermal hazards Not available.

9. Physical and chemical properties

Appearance

Physical state Solid.

Material name: Tantalum Product

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Form	Not available.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
Melting point/freezing point	5424.8 °F (2996 °C) estimated 5424.8 °F (2996 °C)
pH	Not available.
Boiling point, initial boiling point, and boiling range	9804.2 °F (5429 °C) estimated 9804.2 °F (5429 °C)
Flammability (solid, gas)	Not available.
Flash point	Not available.
Decomposition temperature	Not available.
Auto-ignition temperature	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 0.0000001 kPa at 25 °C 0.00001 hPa estimated
Vapor density	Not available.
Density	15.55 g/cm ³ estimated 14.49 g/cm ³ 16.60 g/cm ³
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Evaporation rate	Not available.
Other data	
Molecular formula	Ta
Molecular weight	180.95 g/mol
Specific gravity	15.55 estimated 14.49 16.6

10. Stability and reactivity

Stability	Not available.
Possibility of hazardous reactions	Not available.
Conditions to avoid	None.
Incompatible materials	None.
Hazardous decomposition products	None.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.

Ingestion	Not available.
Symptoms	Not available.
Information on toxicological effects	
Acute toxicity	Not available.
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitization	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not available.
Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.
Chronic effects	Not available.

12. Ecological information

Ecotoxicity	No ecotoxicity data noted for the ingredient(s).
Persistence and degradability	Not available.
Bioaccumulation	Not available.
Mobility in soil	Not available.
Other hazardous effects	Not available.

13. Disposal considerations

Disposal instructions	Not available.
Residual waste	Not available.
Contaminated packaging	Not available.
Local disposal regulations	Not available.

14. Transport information

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.
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15. Regulatory information

Applicable regulations

Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

Not listed.

Standards on Workplace Atmosphere of Dangerous and Hazardous Materials

Tantalum (CAS 7440-25-7)

Listed.

GHS Classification List: GHS implementation phase 1, 2 and 3 (CLA No. 0980145063, 0990146707, and 1020146801)

Tantalum (CAS 7440-25-7)

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

References	Not available.
Issued by	Not available.
Prepared by	Not available.
Issue date	02-12-2018
Revision information	Product and Company Identification: Product Review Hazards Identification: Shared US and Canadian Categories Composition / Information on Ingredients: Ingredients