



CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.

MATERION

Product name: Tantalum Product

Issue date: 05-14-2019

Version #: 01

SDS No: 31

SECTION 1 Chemical product and company identification

Chinese name of chemical	钽产品	
English name of chemical	Tantalum Product	
Manufacturer/Supplier	Materion Advanced Materials Group	
Address	42 Mt. Ebo Road South Brewster, NY 10509 United States	
Contact person	Not available.	
Telephone	1+845.279.0900	
e-mail	Not available.	
Emergency telephone number	Chemtrec	1+703.527.3887
Issue date	05-14-2019	
SDS No	31	

SECTION 2 Hazards identification

Emergency overview	Not available.	
Hazard categories	Not classified.	
Label elements		
Pictograms		
Signal word	None.	
Hazard statement	None.	
Precautionary statement		
Prevention		
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.	
P241	Use explosion-proof electrical/ventilating/lighting equipment.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
Response		
P370 + P378	In case of fire: Use appropriate media for extinction.	
Storage	Store away from incompatible materials.	
Disposal		
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Physical and chemical hazards	Not available.	
Health hazards	Not available.	
Environmental hazards	Not available.	
Supplemental information	None.	

SECTION 3 Composition/information on ingredients

Substance/mixture	Substance
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Chemical name	Concentration (%)	CAS Number
Tantalum	99.9 - 100	7440-25-7

SECTION 4 First aid measures

Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Ingestion	Not available.
Most important symptoms and health effects	Not available.
Personal protection for first-aid responders	Not available.

SECTION 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	None.
Special fire fighting procedures	None.
Protection of fire-fighters	None.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Not available.
For emergency responders	Not available.
Environmental precautions	Not available.
Clean-up methods and materials and containment measures	Not available.
Prevention of secondary hazards	Not available.

SECTION 7 Handling and storage

Handling	Not available.
Storage	Not available.

SECTION 8 Exposure controls/personal protection

Exposure limits

China OELs. Occupational Exposure Limits for Hazardous Agents in the Workplace, Chemical Hazardous Agents (GBZ 2.1-2007)

Material	Type	Value
Tantalum Product	PC-TWA	5 mg/m3
Components	Type	Value
Tantalum (CAS 7440-25-7)	PC-TWA	5 mg/m3

Biological limit values	No biological exposure limits noted for the ingredient(s).
Monitoring methods	Not available.
Engineering measures	Not available.
Personal protective equipment	
Respiratory protection	Not available.
Hand protection	Not available.
Eye protection	Not available.
Skin and body protection	Not available.

SECTION 9 Physical and chemical properties

Appearance

Physical state	Solid.
Form	Not available.
Color	Not available.
Odor	Not available.
pH	Not available.
Melting point/freezing point	5424.8 °F (2996 °C) estimated 5424.8 °F (2996 °C)
Boiling point, initial boiling point, and boiling range	9804.2 °F (5429 °C) estimated 9804.2 °F (5429 °C)
Flash point	Not available.
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 (77 °F (25 °C)) 0.00001 hPa estimated
Vapor density	Not available.
Relative 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.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Other data	
Molecular formula	Ta
Molecular weight	180.95 g/mol
Specific gravity	15.55 estimated 14.49 16.6

SECTION 10 Stability and reactivity

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

SECTION 11 Toxicological information

Acute toxicity	Not available.
Routes of exposure	Not available.
Skin corrosion/irritation	Not available.

Serious eye damage/eye irritation	Not available.
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitizer	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not available.
Toxic to reproduction	Not available.
Specific target organ toxicity following single exposure	Not available.
Specific target organ toxicity following repeated exposure	Not available.
Aspiration hazard	Not available.
Chronic effects	Not available.

SECTION 12 Ecological information

Ecotoxicity	Not available.
Persistence and degradability	Not available.
Bioaccumulation	Not available.
Mobility in soil	Not available.
Other hazardous effects	Not available.

SECTION 13 Disposal considerations

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

SECTION 14 Transport information

CNDG

Not regulated as dangerous goods.

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.

SECTION 15 Regulatory information

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Classification of occupational disease hazards

Tantalum (CAS 7440-25-7)

Regulations on the Control over Safety of Dangerous Chemicals

Not regulated.

Provision on the Environmental Administration of New Chemical Substances

China Inventory of Existing Chemical Substances

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

SECTION 16 Other information

References

Not available.

Revision information

Product and Company Identification: Product Review
Hazards Identification: Shared US and Canadian Categories
Composition / Information on Ingredients: Ingredients