MATERION

SAFETY DATA SHEET

1. Identification

Product identifier **Tantalum Oxide**

Other means of identification

SDS number 2BP **Materion Code** 2BP CAS number 1314-61-0

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Materion Advanced Chemicals Inc.

Address 407 N 13th Street

> 1316 W. St. Paul Avenue Milwaukee. WI 53233

United States

Telephone 414.212.0257

E-mail advancedmaterials@materion.com

Contact person Laura Hamilton

Emergency phone number Chemtrec 800.424.9300

2. Hazard(s) identification

Physical hazards Not classified. Health hazards Not classified. **Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements

None. Hazard symbol Signal word None.

Hazard statement The substance does not meet the criteria for classification.

Precautionary statement

Prevention Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Get medical advice/attention if you feel unwell. Response

Store in a well-ventilated place. Keep container tightly closed. Storage

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Tantalum oxide		1314-61-0	100

4. First-aid measures

Inhalation Move into fresh air and keep at rest. Get medical attention if any discomfort continues. Skin contact Wash with soap and water. Get medical attention if irritation develops or persists. Rinse with plenty of water. Get medical attention if irritation develops and persists. Eye contact

Material name: Tantalum Oxide

Ingestion Rinse mouth thoroughly.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical

attention and special treatment

needed

General information

Treat symptomatically.

Not available.

Not available.

If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Wear suitable protective equipment.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

Accidental release measures

Personal precautions, protective equipment and emergency

procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation.

Methods and materials for containment and cleaning up Not available.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

Handling and storage

Precautions for safe handling Conditions for safe storage, including any incompatibilities Not available. Not available.

8. Exposure controls/personal protection

Occupational exposure limits

1314-61-0)

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910,1000)

Material	Type	Value	Form
Tantalum oxide (CAS	PEL	5 mg/m3	Dust.
1314-61-0)			

US. NIOSH: Pocket Guide to Chemical Hazards

Material	Type	Value	Form
antalum oxide (CAS 314-61-0)	STEL	10 mg/m3	Dust.
	TWA	5 mg/m3	Dust.
S. California Code of Regulation	ns, Title 8, Section 5155. Airborn	e Contaminants	
/laterial	Туре	Value	Form
Fantalum oxide (CAS	PEL	5 mg/m3	Dust.

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

Material name: Tantalum Oxide 2/6

SDS US

Exposure guidelines Occupational exposure limit for this material was withdrawn for insufficient data (2010).

Appropriate engineering controls Not available.

Individual protection measures, such as personal protective equipment

Eye/face protection Use eye protection.

Skin protection

Hand protection Wear protective gloves.

Other Wear necessary protective equipment.

Respiratory protection If ventilation is insufficient, suitable respiratory protection must be provided.

Thermal hazards Not available.

9. Physical and chemical properties

Appearance

Physical state Solid. **Form** Powder. Color Not available. Odor Not available. Odor threshold Not available. pΗ Not available. Melting point/freezing point Not available.

Initial boiling point and boiling

range

Flash point Not available. Not available. **Evaporation rate** Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper

(%)

Not available.

Not available.

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Not available. Vapor pressure Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Insoluble Not available. Partition coefficient

(n-octanol/water)

Not available. Auto-ignition temperature **Decomposition temperature** Not available. Viscosity Not available.

Other information

Molecular formula O5Ta2 Molecular weight 441.89 g/mol

10. Stability and reactivity

Reactivity Not available.

Chemical stability Material is stable under normal conditions.

Material name: Tantalum Oxide SDS US Possibility of hazardous

reactions

Not available.

Conditions to avoid Not available.

Incompatible materials Incompatible with oxidizing agents.

Hazardous decomposition

products

Not available.

Not available.

11. Toxicological information

Information on likely routes of exposure

InhalationNot available.Skin contactNot available.Eye contactNot available.IngestionNot available.

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Not available.

Skin corrosion/irritation

Not available.

Serious eye damage/eye

Not available.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Not available.

Germ cell mutagenicity Not available.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Not available.

Specific target organ toxicity - Not available.

single exposure

Specific target organ toxicity -

Not available.

repeated exposure

Aspiration hazard Not available.

12. Ecological information

Ecotoxicity No ecotoxicity data noted for the ingredient(s).

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Other adverse effects

Not available.

Not available.

13. Disposal considerations

Disposal instructions Dispose of waste material according to Local, State, Federal, and Provincial Environmental

Regulations.

Material name: Tantalum Oxide SDS US

Waste from residues / unused

products

Not available.

Contaminated packaging

Not available.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

Toxic Substances Control

This substance is on the TSCA inventory and is designated "active".

Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

16. Other information, including date of preparation or last revision

Issue date 05-22-2015 Revision date 01-16-2020

Version # 07

SDS US Material name: Tantalum Oxide

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