## **SAFETY DATA SHEET**

Creation Date 10-Dec-2022

	1. Identification
Product Name	Tantalum(V) oxide
Cat No. :	AC194170000; AC194170100; AC194170500
CAS No Synonyms	1314-61-0 No information available
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.
Company Heeger Materials Inc 230 Steele St, Denver, CO 80206, US Tel: 925-385-8104  Emergency Telephone Number For information US call: 001-800-ACR Emergency Number US:001-201-796- CHEMTREC Tel. No.US:001-800-424	OS-01 / <b>Europe</b> call: +32 14 57 52 11 -7100 / <b>Europe</b> : +32 14 57 52 99
	2. Hazard(s) identification
<u>Classification</u> This chemical is considered hazardou	s by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Combustible dust	Yes
Label Elements Signal Word Warning Hazard Statements	
May form combustible dust concentrate  Precautionary Statements  Storage	tions in air

Store in a well-ventilated place. Keep container tightly closed Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Tantalum oxide	1314-61-0	<=100

## 4. First-aid measures

General Advice If symptoms persist, call a physician. Show this safety data sheet to the doctor in

attendance.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms and

effects

Notes to Physician Treat symptomatically

None reasonably foreseeable.

## 5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO2). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

#### **Specific Hazards Arising from the Chemical**

Fine dust dispersed in air may ignite.

#### **Hazardous Combustion Products**

None known.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health **Flammability** Instability Physical hazards N/A

## 6. Accidental release measures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust **Personal Precautions** 

formation.

Should not be released into the environment. See Section 12 for additional Ecological **Environmental Precautions** 

Information.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

7. Handling and storage

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid Handling

contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Keep containers tightly closed in a cool, well-ventilated place. Incompatible Materials. Storage.

Strong oxidizing agents.

## 8. Exposure controls / personal protection

#### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Tantalum oxide		(Vacated) TWA: 5 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	IDLH: 2500 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	
			STEL: 10 mg/m <sup>3</sup>	

#### Legend

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

None under normal use conditions. **Engineering Measures** 

**Personal Protective Equipment** 

Tight sealing safety goggles. **Eye/face Protection** 

rials Inc Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure. Impervious

gloves.

No protective equipment is needed under normal use conditions. **Respiratory Protection** 

**Hygiene Measures** When using do not eat, drink or smoke. Provide regular cleaning of equipment, work area

and clothing.

## 9. Physical and chemical properties

**Physical State** Powder Solid **Appearance** Beige Odor Odorless

No information available **Odor Threshold** 

Ha Not applicable

1872 °C / 3401.6 °F Melting Point/Range No information available **Boiling Point/Range** No information available Flash Point

**Evaporation Rate** Not applicable

Flammability (solid,gas) No information available

## Tantalum(V) oxide

Flammability or explosive limits

No data available Upper Lower No data available **Vapor Pressure** No information available

**Vapor Density** Not applicable

Specific Gravity No information available Solubility Insoluble in water

Partition coefficient; n-octanol/water No data available

**Autoignition Temperature** No information available **Decomposition Temperature** No information available

**Viscosity** Not applicable O5 Ta2 **Molecular Formula Molecular Weight** 441.89

## 10. Stability and reactivity

**Reactive Hazard** Yes

Stability No information available.

**Conditions to Avoid** Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

**Hazardous Polymerization** Hazardous polymerization does not occur.

None under normal processing. **Hazardous Reactions** 

## 11. Toxicological information

#### **Acute Toxicity**

#### **Product Information**

Acute Toxicity	'4	la.	
Product Information Component Information		1191	
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tantalum oxide	LD50 = 8 g/kg (Rat)	Not listed	Not listed

**Toxicologically Synergistic** 

**Products** 

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

No information available Sensitization

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Tantalum oxide	1314-61-0	Not listed				

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

None known STOT - single exposure STOT - repeated exposure None known

#### Tantalum(V) oxide

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

## 12. Ecological information

**Ecotoxicity** 

Do not empty into drains. .

Persistence and Degradability Insoluble in water

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Is not likely mobile in the environment due its low water solubility.

# 13. Disposal considerations Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste generators must determine whether a discarded chemical is classified a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

## 15. Regulatory information

#### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Tantalum oxide	1314-61-0	Χ	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

#### **International Inventories**

X = listed.

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Tantalum oxide	1314-61-0	Х	-	215-238-2	Χ	Χ	Χ	Х	Х	KE-12704

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## U.S. Federal Regulations

<sup>&#</sup>x27;-' - Not Listed

**SARA 313** Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

Not applicable **CWA (Clean Water Act)** 

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

**CERCLA** Not applicable

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Tantalum oxide	-	X	-	-	-

## **U.S. Department of Transportation**

Reportable Quantity (RQ): Ν

DOT Marine Pollutant Ν

**DOT Severe Marine Pollutant** Ν

## U.S. Department of Homeland

This product does not contain any DHS chemicals.

Security

**Other International Regulations** 

Tantalum oxide

No information available Mexico - Grade

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Tantalum oxide	1314-61-0	-	-	-

## Safety, health and environmental regulations/legislation specific for the substance or mixture

1314-61-0

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Tantalum oxide	1314-61-0	Not applicable	Not applicable	Not applicable	Not applicable
	0.0.0.11	10 111 11	lo		I 5 . 10
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

Requirements

Not applicable

Not applicable

Not applicable

## 16. Other information

Notification

Not applicable

## Tantalum(V) oxide

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Creation Date 10-Dec-2022

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

## **End of SDS**

