## SAFETY DATA SHEET

Revision Date 25-Feb-2022

	Revision	Number	2
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1. Identification				
Product Name Tantalum powder				
Cat No. :	10345			
CAS-No Synonyms	7440-25-7 No information available			
Recommended Use Uses advised against Details of the supplier of the safety	Laboratory chemicals. Food, drug, pesticide or biocidal product use. <u>v data sheet</u>			
Company Heeger Materials INC 230 Steele St Denver, CO 80206 United States Tel: +(925) 385-8104 Email: sales@heegermaterials.com https://heegermaterials.com/ Emergency Telephone Number During normal business hours (Mono After normal business hours, call Cal	ay-Friday, 8am-7pm EST), call (800) 343-0660. echem 24 at (866) 928-0789.			
	2. Hazard(s) identification			
Classification This chemical is considered hazardo	us by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1	1200)		
Flammable solids Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single of Target Organs - Respiratory system				

**Signal Word** Warning

#### Hazard Statements

Flammable solid Causes skin irritation Causes serious eye irritation May cause respiratory irritation



#### **Precautionary Statements** Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

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

Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

None identified

# terials Inc 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Tantalum powder	7440-25-7	<= 100

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4. First-ald measures				
If symptoms persist, call a physician.				
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.				
Remove to fresh air. If not breathing, give artificial respiration. Get medical attention 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	None reasonably foreseeable.
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	approved class D extinguishers. Do not use water or foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	Not applicable No information available
Autoignition Temperature Explosion Limits	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

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

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Tantalum oxide.

#### 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 2	Flammability 2	Instability 0	Physical hazards N/A
	6. Accidental I	release measures	Ъ
Personal Precautions	Ensure adequate ventila formation.	ation. Use personal protective equip	oment as required. Avoid dust
Environmental Precautions	Should not be released	into the environment.	
Methods for Containment and C Up 	lean Sweep up and shovel ir containers for disposal.	to suitable containers for disposal.	Keep in suitable, closed

#### 7. Handling and storage

Handling

### Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not

get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### Storage

#### Keep containers tightly closed in a dry, cool and well-ventilated place.

#### 8. Exposure controls / personal protection

#### Exposure Guidelines

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

Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

#### 9. Physical and chemical properties

**Physical State** eger M Appearance Odor **Odor Threshold** pН . Melting Point/Range **Boiling Point/Range** Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density Density Specific Gravity Solubility Partition coefficient; n-octanol/water Autoignition Temperature **Decomposition Temperature** Viscositv Molecular Formula **Molecular Weight** 

Powder Solid Dark Gray/Black Odorless No information available Not applicable 2996 °C / 5424.8 °F 5429 °C / 9804.2 °F Not applicable Not applicable No information available

No data available No data available No information available Not applicable 16.69 g/cm3 No information available insoluble No data available Not applicable No information available Not applicable Ta 180.95

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### 10. Stability and reactivity

Reactive HazardNone known, based on information availableStabilityStable under normal conditions.Conditions to AvoidIncompatible products.Incompatible MaterialsAcids, Strong oxidizing agents

Hazardous Decomposition Products Tantalum oxide

Hazardous Polymerization	Hazardous polyme	rization does not c	occur.		
Hazardous Reactions	None under normal processing.				
	11. Toxico	logical info	ormation		
Acute Toxicity					
Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as w	No information ava		d long-term expo	sure_	
Irritation	No information ava	ilable			
Sensitization	No information available				
Carcinogenicity	The table below inc	dicates whether ea	ach agency has lis	ted any ingredient	as a carcinogen.
Component CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Tantalum powder 7440-25-7	Not listed No information ava	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects Reproductive Effects Developmental Effects	No information ava	ilable.			
Teratogenicity	No information ava	ilable.			
STOT - single exposure STOT - repeated exposure	Respiratory system None known	ato			
Aspiration hazard	Respiratory system None known No information available No information available The toxicological properties have not been fully investigated.				
Symptoms / effects,both acute and delayed	No information ava	ilable	la/s	7.	
Endocrine Disruptor Information	No information ava	ilable		100	
Other Adverse Effects	The toxicological p	roperties have not	been fully investig	gated.	
	12. Ecolo	ogical infor	mation		
<u>Ecotoxicity</u>					
Persistence and Degradability	Insoluble in water				
<b>Bioaccumulation/ Accumulation</b>	No information ava	ilable.			
Mobility	Is not likely mobile	in the environmen	t due its low water	solubility.	
	13. Dispo	sal conside	rations		
Waste Disposal Methods	Chemical waste ge hazardous waste. national hazardous	Chemical waste g	enerators must als	so consult local, reg	jional, and

### 14. Transport information

DOT	
UN-No	UN3089
Proper Shipping Name	METAL POWDERS, FLAMMABLE, N.O.S.
Technical Name	(Tantalum powder)
Hazard Class	4.1
Packing Group	II
TDG	
UN-No	UN3089
Proper Shipping Name	Metal powder, flammable, n.o.s.
Hazard Class	4.1
Packing Group	II
IATA	
UN-No	UN3089
Proper Shipping Name	Metal powder, flammable, n.o.s.
Hazard Class	4.1
Packing Group	II
IMDG/IMO	
UN-No	UN3089
Proper Shipping Name	Metal powder, flammable, n.o.s.
Hazard Class	4.1
Packing Group	II
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#### 15. Regulatory information

#### United States of America Inventory

The set of the second second second			Active/Inactive	Flags
Tantalum powder	7440-25-7	X	ACTIVE	-
egend: SCA - Toxic Substances Control - Listed - Not Listed	Act, (40 CFR Part 710)	Mat	<b>0</b> <sub>b</sub> •	
SCA 12(b) - Notices of Export	t Not applicabl	e	lala .	

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Tantalum powder	7440-25-7	Х	-	231-135-5	Х	Х	Х	Х	KE-33006

#### U.S. Federal Regulations

SARA 313	Not applicable		
SARA 311/312 Hazard Categories	See section 2 for more information		
CWA (Clean Water Act)	Not applicable		
Clean Air Act	Not applicable		
<b>OSHA</b> - 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 powder	Х	Х	Х	-	-

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

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

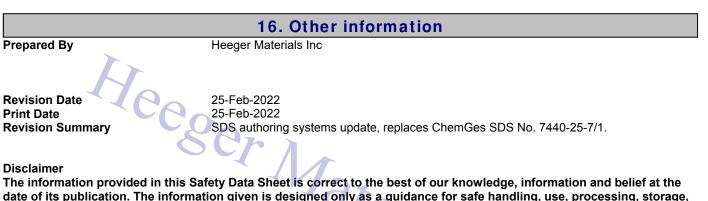
#### **U.S. Department of Homeland** Security

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade

No information available



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 als ho materials or in any process, unless specified in the text

End of SDS