Heegermaterials

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Niobium Tantalum Alloy Powder

CAS #:

Relevant identified uses of the substance: Scientific research and development

Supplier details:

Heeger Materials Inc. E-mail: sales@heegermaterials.com Tel: (925) 385-8104 Address: 230 Steele St Denver, CO 80206 United States **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance is not classified as hazardous to health or the environment according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Not applicable

Information concerning particular hazards for human and environment:

No information known.

Hazards not otherwise classified

No information known.

Label elements				1.1		1	1		1	1.1	
Labelling according	ng to F	Regula	tion (EC) No 127	2/2008						
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Hazard pictogram											
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Results of PBT ar	nd vPv	∕B ass	essment				40	17	20		
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Not applicable							٠				
vPvB:											
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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Substances

CAS# Description:

7440-03-1 Niobium

7440-25-7 Tantalum

EC number:

SECTION 4. FIRST AID MEASURES

Description of first aid measures

General information

No special measures required.

After inhalation

Seek medical treatment in case of complaints.

After skin contact

Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Materials Inc.

After swallowing

If symptoms persist consult doctor.

Information for doctor

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents

Special powder for metal fires. Do not use water.

For safety reasons unsuitable extinguishing agentsWater

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Metal oxide fume

Advice for firefighters

Protective equipment:

No special measures required

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Not required.

Environmental precautions:

Do not allow material to be released to the environment without proper governmental permits.

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

Methods and material for containment and cleaning up:

Pick up mechanically.

Prevention of secondary hazards:

No special measures required.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe handling

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Information about protection against explosions and fires:

No special measures required.



Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Do not store together with acids.

Store away from oxidizing agents.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Specific end use(s)

No further relevant information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL aterials In **PROTECTION**

Additional information about design of technical systems:

No further data; see section 7. Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values

that have to be monitored at the workplace.

Additional information: No data

Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Maintain an ergonomically appropriate working environment.

Breathing equipment: Not required.

Protection of hands: Not required.

Penetration time of glove material (in minutes): Not determined

Eye protection: Safety glasses

Body protection: Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance: Not determined.

Form: Not determined.

Color: Not determined.

Odor: Not determined.

Odor threshold: Not determined.

pH-value: Not applicable.

Change in condition

Melting point/Melting range: Not determined.

Boiling point/Boiling range: Not determined.

aterials Inc. Sublimation temperature / start: Not determined

Flammability (solid, gaseous): Not determined.

Ignition temperature: Not determined

Decomposition temperature: Not determined

Auto igniting: Not determined.

Danger of explosion: Not determined.

Explosion limits:

Lower: Not determined

Upper: Not determined

Vapor pressure: Not applicable.

Density at 20 °C (68 °F): Not determined.

Relative density: Not determined.

Vapor density: Not applicable.

Evaporation rate: Not applicable.

Solubility in / Miscibility with Water: Not determined.

Partition coefficient (n-octanol/water): Not determined.

Viscosity: Not determined.

Dynamic: Not applicable.

Kinematic: Not applicable.

Other information: No further relevant information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity

No information known.

Chemical stability

Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Possibility of hazardous reactions

Reacts with strong oxidizing agents

Conditions to avoid

No further relevant information available.

Incompatible materials:

Acids

Oxidizing agents

Hazardous decomposition products:

Metal oxide fume

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

No effects known.



LD/LC50 values that are	e releva	ant for clas	sificatio	on:	1			1	٠		
No data											
Skin irritation or corrosion	on:	''			• • •			'			
May cause irritation											
Eye irritation or corrosic	n:	.**			.**	;					
May cause irritation											
Sensitization:	1771			77 10			1010			7 7	
No sensitizing effects known.											
Germ cell mutagenicity:					(11)			100			
No effects known.											
Carcinogenicity:					1				1		
ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in											
terms of its carcinogenia	city in h	umans an	d/or an	imals.			Į.		111		
Reproductive toxicity:			11		167					' '	
The Registry of Toxic Effects of Chemical Substances(RTECS) contains reproductive data for this											
substance.		"	. :		113	1/0		'		; '	
Specific target organ system toxicity - repeated exposure:											
No effects known.	. !		: ' '	. 1		: ' '		C	111		
Specific target organ sy		•	•								
No effects known.	111						111				
Aspiration hazard:			. :			.;	: '	'	.1	: '	
No effects known.											
Subacute to chronic tox	icitý:		: ' '			: • •	. :	. * *	: '	. :	
The Registry of Toxic E	ffects o	f Chemica	I Subst	ances (RTECS) o	contains	multip	le dose to	xicity		
data for this substance.											
Additional toxicological	informa	ition:	, ;	, ,	$\alpha^{\prime\prime}$, ;	1	n*		1 1	
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.											
1.11			1.1.1			1.1.1					

SECTION 12. ECOLOGICAL INFORMATION

Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Materials Inc. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available. **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

Recommendation

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation:

SECTION 14. TRANSPORT INFORMATION

UN-Number				; ' '			,,,		.**			
DOT, ADN, IMDO	e, IATA					1						
Not applicable			'			'		1919				
UN proper shipping name												
DOT, ADN, IMDO	S, IATA					.00	: ' '					
Not applicable												
Transport hazard	class(e	124	1									
DOT, ADR, ADN	IMDG,	IATA			: '	a.11	.:		24.1			
Class	16	90										
Not applicable	111	8	er.	X		. * *	111		,**			
Packing group	1000		. 1	1)	tions:			1900	,		
DOT, IMDG, IATA	4				TIC	77	_					
Not applicable	, i			. !	1	41a	0		0.5	,		
Environmental ha	zards:						10	In				
Not applicable.	111	. :		! ' '			111					
Special precaution	ns for ເ	ıser							·			
Not applicable.												
Transport in bulk	accord	ing to A	nnex II of	MARP	OL73/7	8 and the	IBC Co	deNot	applicable			
Transport/Additio												
DOT	;	. :	. * *	; ' '		. ' '			. * *			
Marine Pollutant	(DOT):					1			1			
No UN "Model Regul				, †	77 19	ar.	, ;			,		

SECTION 15. REGULATORY INFORMATION

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

All components of this product are listed in the U.S. Environmental Protection Agency Toxic

Substances Control Act Chemical substance Inventory.

All components of this product are listed on the Canadian Domestic Substances List (DSL).

SARA Section 313 (specific toxic chemical listings)

Substance is not listed.

California Proposition 65

Prop 65 - Chemicals known to cause cancer

Substance is not listed.

For use only by technically qualified individuals.

Other regulations, limitations and prohibitive regulations

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.

Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No

1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

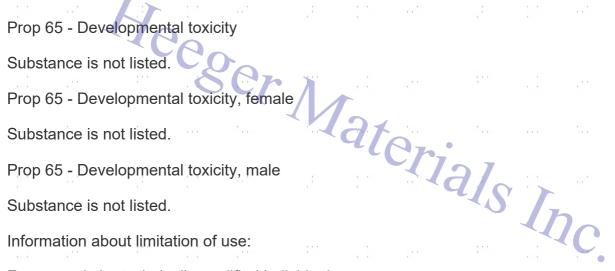
Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use)

Substance is not listed.

REACH - Pre-registered substances

Substance is listed.



SECTION 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.