Heegermaterials

SAFETY DATA SHEET

Revision Date 20-Feb-2020

1. Identification			
Product Name	Niobium Powder		
CAS-No Synonyms	7440-03-1 No information available		
Recommended Use	Laboratory chemicals.		
Uses advised against	Food, drug, pesticide or biocidal product use.		
Details of the supplier of the safety of Company Heeger Materials Inc. 230 Steele St Denver CO 80206 United States Tel: 925-385-8104 Email: sales@heegermaterials.com www.heegermaterials.com	data sheet		
Emergency Telephone Number	Men.		

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

I

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids

Category 1

Label Elements

Signal Word Danger

Hazard Statements Flammable solid

Revision Number 2



Precautionary Statements Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Wear protective gloves/protective clothing/eye protection/face protection **Fire** In case of fire: Use CO2, dry chemical, or foam for extinction **Hazards not otherwise classified (HNOC)** None identified

3. Composition/Information on Ingredients				
Component		CAS-No	Weight %	
Niobium		7440-03-1	<=100	
6	C 7-4.	First-aid measures		
General Advice	If symptoms	persist, call a physician.		
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. If skin irritation persists, call a physician.			
Inhalation	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 sympto	matically		
	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 -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available

Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available t No information available No information available		
Specific Hazards Arising from the (Keep product and empty container av		inition.	
Hazardous Combustion Products Niobium oxide. Protective Equipment and Precauti As in any fire, wear self-contained bre protective gear.		nand, MSHA/NIOSH (approve	ed or equivalent) and full
NFPA Health 0	Flammability 2	Instability 0	Physical hazards
	6. Accidental rele	ase measures	
Personal Precautions	Ensure adequate ventilation. formation.	Use personal protective equi	pment as required. Avoid dust
Environmental Precautions	Should not be released into t		12 for additional Ecological water system. Do not flush into
Methods for Containment and Clea Up	n Sweep up and shovel into su containers for disposal.	itable containers for disposal.	Keep in suitable, closed
0	7. Handling a		
Handling			re adequate ventilation. Do not nalation. Avoid dust formation.
Storage	Keep containers tightly close	d in a dry, cool and well-venti	lated place.
8. E	xposure controls /	personal protectio	n
Exposure Guidelines		n any hazardous materials wit	
			UC.
Engineering Measures	Ensure adequate ventilation,	especially in confined areas.	
Personal Protective Equipment			
Eye/face Protection		eyeglasses or chemical safety tion regulations in 29 CFR 19	y goggles as described by 10.133 or European Standard
Skin and body protection	Wear appropriate protective	gloves and clothing to preven	t skin exposure.
Respiratory Protection	EN 149. Use a NIOSH/MSH/	regulations found in 29 CFR 1 A or European Standard EN 1 d or if irritation or other sympto	
Hygiene Measures	Handle in accordance with g	ood industrial hygiene and sa	fety practice.
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	9. Physical and chemical properties	
Physical State	Solid	

Niobium powder

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 **Specific Gravity** Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity

Grey Odorless No information available 2477 °C / 4490.6 °F 4927 °C / 8900.6 °F No information available Not applicable No information available

No data available No data available No information available Not applicable 8.57 g/cm3 No information available No data available No information available No information available No information available Not applicable

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Oxidizing agent
Hazardous Decomposition Products	Niobium oxide
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
	11. Toxicological information
Acute Toxicity	
Product Information Component Information	•

Component	CAS-No	IARC	NTP	ACGIH		Mexico
Carcinogenicity		The table below in	dicates whether ea	ich agency has lis	ted any ingredient	as a carcinogen.
Sensitization		No information ava	ailable			
Irritation		No information ava	ailable			
Delayed and immed	liate effects as w	ell as chronic effe	cts from short an	d long-term expo	osure	
Component Informa Toxicologically Syn Products		No information ava	ailable			

	Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
	Niobium	7440-03-1	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information available						
-								
Reproductive Effects		No information available.						
•								
	Developmental Effe	cts	No information ava	ailable.				

Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability	e and Degradability Insoluble in water May persist	
Bioaccumulation/ Accumulation	No information available.	
Mobility	Is not likely mobile in the environment due its low water solubility.	
100-	13. Disposal considerations	
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as 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
DOT	4/0
UN-No	UN3089
Proper Shipping Name	METAL POWDERS, FLAMMABLE, N.O.S.
Technical Name	(Niobium powder)
Hazard Class	4.1
Packing Group	
<u>_TDG</u>	METAL POWDERS, FLAMMABLE, N.O.S. (Niobium powder) 4.1 II UN3089 Metal powder, flammable, n.o.s.
UN-No	UN3089
Proper Shipping Name	Metal powder, flammable, n.o.s.
Hazard Class	4.1
Packing Group	II
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	
	15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Niobium	7440-03-1	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

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	
Niobium	7440-03-1	Х	-	231-113-5	-	Х	Х	Х	2013-3-5602	
U.S. Federal Regulations										
SARA 313	Not app	Not applicable								
SARA 311/312 Hazard Catego	ries See sec	See section 2 for more information								
CWA (Clean Water Act)	Not app	Not applicable								
Clean Air Act	Not app	Not applicable								
OSHA - Occupational Safety an Health Administration	d Not app	Not applicable								
CERCLA	Not app	Not applicable								
California Proposition 65	This pro	This product does not contain any Proposition 65 chemicals.								
U.S. State Right-to-Know Regulations	Not app	Not applicable								
U.S. Department of Transport Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	ation N N N	N N								
U.S. Department of Homeland Security	I This pro	This product does not contain any DHS chemicals.								
Other International Regulation	ns									
Mexico - Grade	No infor	mation ava	ailable							

16. Other information

Prepared By

Health, Safety and Environmental Department

Revision Date Print Date Revision Summary 20-Feb-2020 20-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 7440-03-1/1.

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