Heegermaterials

SAFETY DATA SHEET

Creation Date 04-Jun-2010

Revision Date 29-Feb-2020

Revision Number 2

1. Identification

Product Name

Recommended Use

Uses advised against

Terbium(III,IV) oxide, REacton®

CAS-No Synonyms

Terbium Oxide 4N; Tervbium Oxide 3N Laboratory chemicals. Food, drug, pesticide or biocidal product use.

12037-01-3

Details of the supplier of the safety data sheet

Company Heeger Materials Inc. 230 Steele St Denver CO 80206 United States

Tel: 925-385-8104 Email: sales@heegermaterials.com www.heegermaterials.com

Emergency Telephone Number

Ser Mate 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 Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component		CAS-No	Weight %			
Terbium oxide (Tb4O7)		12037-01-3	99.99			
	4. First	-aid measures				
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 soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.				
nhalation		Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.				
ngestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water. Get medical attention. If possible drink milk afterwards.					
Most important symptoms and effects	No information availa	ıble.				
Notes to Physician	Treat symptomatical	У				
1/A	5. Fire-fig	hting measures				
Suitable Extinguishing Media		 b). Dry chemical. Use extinguish and the surrounding environme 	hing measures that are appropriate to ent. Chemical foam.			
Jnsuitable Extinguishing Media	No information availa					
Flash Point Method -	No information availa No information availa	ible C7				
Autoignition Temperature Explosion Limits	No information availa	ible				
Upper	No data available No data available		h			
Lower Sensitivity to Mechanical Impa	ct No information available					
Sensitivity to Static Discharge						
Specific Hazards Arising from the Keep product and empty container av		ces of ignition.				
Hazardous Combustion Products Thermal decomposition can lead to re Protective Equipment and Precaut As in any fire, wear self-contained bre protective gear. Thermal decompositi	ons for Firefighters eathing apparatus pres	sure-demand, MSHA/NIOSH (a	approved or equivalent) and full			
NFPA_	_		_			
Health 0	Flammability 0	Instability 1	Physical hazards N/A			
		l release measures				
Personal Precautions Environmental Precautions		ntilation. Use personal protective ditional Ecological Information				

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal.

	7. Handling and storage				
Lending		ntaat with akin and alathing			
Handling	Avoid contact with skin and eyes. Do not breathe dust. Avoid co Remove and wash contaminated clothing and gloves, including Do not ingest. If swallowed then seek immediate medical assist handling.	the inside, before re-use.			
Storage	Keep in a dry, cool and well-ventilated place. Refer product spe label for specific storage temperature requirement. Keep contai				
8. Ex	posure controls / personal protection				
Exposure Guidelines	This product does not contain any hazardous materials with occ limitsestablished by the region specific regulatory bodies.	cupational exposure			
Engineering Measures	None under normal use conditions.				
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	No protective equipment is needed under normal use conditions.				
Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.					
9.	Physical and chemical properties				
Physical State	Powder Solid				
Appearance	Dark brown				
Odor	Odorless No information available No data available				
Odor Threshold	No information available				
pH Melting Point/Range	No information available No data available				
Boiling Point/Range	No information available	•			
Flash Point	No information available				
Evaporation Rate	Not applicable				
Flammability (solid,gas)	No information available				
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	No information available				
Partition coefficient; n-octanol/water Autoignition Temperature	r No data available No information available				
Decomposition Temperature	No information available				
Viscosity	Not applicable				
Molecular Formula	O7 Tb4				
Molecular Weight	747.69				

10. Stability and reactivity

Reactive Hazard	None known, based on information available					
Stability	Stable under normal conditions. Air sensitive. Hygroscopic.					
Conditions to Avoid	Incompatible products. Exposure to moisture.					
Incompatible Materials	Strong oxidizing agents, Strong acids, Finely powdered metals					
Hazardous Decomposition Produc	ts Thermal decomposition can lead to release of irritating gases and vapors					
Hazardous Polymerization	No information available.					
Hazardous Reactions	None under normal processing.					
11. Toxicological information						
Acute Toxicity						
Product Information Component Information	No acute toxicity information is available for this product					
Toxicologically Synergistic Products	No information available					

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

No information available

No information available

Sensitization

Irritation

Carcinogenicity

2

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

r							
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Terbium oxide	12037-01-3	Not listed	Not listed	Not listed	Not listed	Not listed	
(Tb4O7)			410.	•			
Mutagenic Effects		No information	available	121			
Reproductive Effect		No information available.					
Developmental Effe	cts	No information available. No information available. No information available.					
STOT - single expos STOT - repeated exp		None known None known					
Aspiration hazard		No information available					
Symptoms / effects,both acute and No information available lelayed							
Endocrine Disruptor	r Information	No information available					
Other Adverse Effec	ets	The toxicologic	al properties have not	been fully investig	gated.		
12. Ecological information							

<u>Ecotoxicity</u> 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 MethodsChemical 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	Not regulated				
TDG	Not regulated				
IATA	Not regulated				
IMDG/IMO	Not regulated				
15. Regulatory information					

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Terbium oxide (Tb4O7)	12037-01-3	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
Terbium oxide (Tb4O7)	12037-01-3	-	Х	234-856-3	X	Х	-	-	KE-33706
J.S. Federal Regulations							b _		
SARA 313	Not app	Not applicable							
SARA 311/312 Hazard Catego	ries See sec	See section 2 for more ir							
CWA (Clean Water Act)	Not app	licable							
Clean Air Act	Not app	Not applicable							
OSHA - Occupational Safety an Health Administration	d Not app	Not applicable							
CERCLA	Not app	licable							
California Proposition 65	This pro	duct does	not conta	in any Prop	osition 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								

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

16. Other information

Prepared By

Health, Safety and Environmental Department

Creation Date	04-Jun-2010
Revision Date	29-Feb-2020
Print Date	29-Feb-2020
Revision Summary	Initial Release.

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