Heegermaterials

SAFETY DATA SHEET

Revision Date 14-Feb-2020

Revision Number 2

	1. Identification					
Product Name	Dysprosium(III) oxide					
CAS-No	1308-87-8					
Synonyms	Dysprosium Sesquioxide.; Didysprosium Trioxide; Dysprosia					
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.					
During normal business hours (I	om					
	2. Hazard(s) identification					
L Classification Classification under 2012 OSHA	Hazard Communication Standard (29 CFR 1910.1200)					
Based on available data, the c	lassification criteria are not met					
Label Elements None required						
Hazards not otherwise classif	ed (HNOC)					

None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Dysprosium oxide (Dy2O3)	1308-87-8	99.9

Personal Precautions	Ensure adequate ventilation. Use p	personal protective equ	lipment as required.						
	6. Accidental release		in months and a second second						
NFPA Health 0	Flammability 0	Instability 1	Physical hazards N/A						
Protective Equipment and Precaut As in any fire, wear self-contained br	elease of irritating gases and vapors. ions for Firefighters eathing apparatus pressure-demand, ion can lead to release of irritating ga		ved or equivalent) and full						
Specific Hazards Arising from the Keep product and empty container av	Chemical way from heat and sources of ignition	rials	~ <i>i</i> C.						
Sensitivity to Mechanical Impa Sensitivity to Static Discharge	No information available	- 3	n-						
Lower	No data available	1d/a							
Explosion Limits Upper	No data available	7.7							
Autoignition Temperature	dia	_ •							
Flash Point Method -	No information available No information available								
Unsuitable Extinguishing Media	No information available								
	surrounding environment.								
Suitable Extinguishing Media	Use extinguishing measures that a	re appropriate to local	circumstances and the						
	5. Fire-fighting me	easures							
Notes to Physician	Treat symptomatically								
Most important symptoms and effects	No information available.								
Ingestion	Never give anything by mouth to a physician immediately. If possible		Drink plenty of water. Call a						
Inhalation	Remove from exposure, lie down. respiration. Immediate medical atte		not breathing, give artificial						
Skin Contact	Wash off immediately with soap ar clothes and shoes. Get medical at immediately.								
Eye Contact		Immediate medical attention is required. Rinse immediately with plenty of water, also ur the eyelids, for at least 15 minutes.							
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4. First-aid measures

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	7. Handling and storage					
Handling	Avoid contact with skin and eyes. Avoid contact with skin and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Avoid breathing vapors or mists. Do not ingest. If swallowed then seek immediate medical assistance. Wash thoroughly after handling.					
Storage	Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed.					
8. Ex	cposure controls / personal protection					
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.					
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	Off-white					
Odor	Odorless					
Odor Threshold	No information available					
рН	No information available					
Melting Point/Range	2330 - 2350 °C / 4226 - 4262 °F					
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						
Upper	No data available					
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/wate						
Autoignition Temperature						
Decomposition Temperature	No information available					
Viscosity	Not applicable					
Molecular Formula	Dy2 O3					
Molecular Weight	373					
	10. Stability and reactivity					
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Reactive Hazard

None known, based on information available

Stability	Stable under normal conditions. Hygroscopic. Air sensitive.			
Conditions to Avoid	Incompatible products.			
Incompatible Materials	Oxidizing agent			
Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors				
Hazardous Polymerization Hazardous polymerization does not occur.				
Hazardous Reactions	None under normal processing.			

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dysprosium oxide (Dy2O3)	LD50 > 5 g/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic No information available Products

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
Dysprosium oxide (Dy2O3)	1308-87-8	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ilable	121		
Reproductive Effect	S	No information ava	ilable.	-15	1-	
Developmental Effe	cts	No information ava	ilable.	~	Inc	
Teratogenicity		No information ava	ilable.			
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information ava	ilable			
Symptoms / effects delayed	,both acute and	No information ava	ilable			
Endocrine Disrupto	r 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. 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				
<u>DOT</u> _ <u>TDG_</u> IATA_	Not regulated				
<u>IATA</u>	Not regulated				

15	Requ	latory	information
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Not regulated

United States of America Inventory

IATA IMDG/IMO

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Dysprosium oxide (Dy2O3)	1308-87-8	Х	ACTIVE	-

Legend:	
TSCA - Toxic Substances Control Act, (40	CFR Part 710)
X - Listed	
'-' - Not Listed	
TSCA 12(b) - Notices of Export	Not applicable

TSCA 12(b) - Notices of Export

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

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Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Dysprosium oxide (Dy2O3)	1308-87-8	-	Х	215-164-0		/ X	Х	Х	KE-10305
U.S. Federal Regulations									
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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
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	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant	N N

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

16. Other information

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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

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