Heegermaterials

Heeger Materials Inc. Safety Data Sheet Dysprosium

	1. Product and Con	mpany Identificat	ion		
Trade Name:	Dysprosium				
Chemical Formula:	Dy				
Recommended Use:	Scientific res	search and develo	opment		
Manufacturer/Supplier:	Heeger Mate	erials Inc.			
Address:		230 Steele St Denver			
	CO 80206	United States			
	United State	S			
Tel #:	925-385-81	04			
24-Hour Emergency Contact:		800-424-9300 (US & Canada)			
	+1-703-527-3887 (International)				
1	2. Hazards	Identification			
Signal Word:	Danger	•			
GU					
		2			
Hazard Statements:	H228: Flammable solid				
		H260: In contact with water releases flammable gases which may ignite			
	spontaneously				
Precautionary Statements:	P210: Keep away from heat/sparks/open flames/hot surfaces – No				
	smoking				
	P231+P232: Handle under inert gas. Protect from moisture				
	P280: Wear protective gloves/protective clothing/eye protection/face				
	protection P270 (P278) In case of first Lies special pounder for motel first for				
	P370+P378: In case of fire: Use special powder for metal fires for extinction				
	P402+404: Store in a dry place. Store in a closed container				
		P501: Dispose of contents/container in accordance with			
	local/regiona	local/regional/national/international regulations			
HMIS Health Ratings (0-4):	Powder	Pieces	Bulk		
Health:	1	1	1		
Flammability:	3	2	1		
Physical:	2	1	1		
	3. Con	nposition			
Chemical Family:	Rare earth m	netal			
Additional Names:	None				
Dysprosium (Dy):	100				
Percentage: CAS #:	100 wt% 7429-91-6				
EC #:	231-073-9				
LC π .	231-073-9				

	4. First Aid Procedures		
General Treatment:	Seek medical attention if symptoms persist.		
Special Treatment:	None		
Important Symptoms:	None		
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.		
Ingestion:	Seek medical attention.		
Skin:	Wash affected area with mild soap and water. Remove any		
Even	contaminated clothing.		
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing		
	5. Firefighting Measures		
Flammability:	Flammable as powder		
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder.		
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective		
	clothing to prevent contact with skin and eyes. See section 10 for		
	decomposition products.		
100	6. Accidental Release Measures		
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in		
8 C M	special protection information. Isolate spill area and provide		
	ventilation. Vacuum up spill using a high efficiency particulate		
	absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.		
Environmental Precautions:	Isolate runoff to prevent environmental pollution.		
Livitoinienai Freedutoits.	isolate runon to proven environmental politicon.		
	7. Handling and Storage		
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.		
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry		
	inert gas. Store apart from materials and conditions listed in section 10.		
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before		
	eating and smoking. Do not blow dust off clothing or skin with		
X7	compressed air.		
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.		
8. Exp	osure Controls and Personal Protection		
Permissible Exposure Limits:	N/A		
Threshold Limit Value:	N/A		
Special Equipment:	None		
Respiratory Protection:	Dust Respirator		
Protective Gloves:	Rubber gloves		
Eye Protection:	Safety glasses or goggles, Full face protection		
	Protective work clothing. Wear close-toed shoes and long		
Body Protection:	sleeves/pants.		

9. Pt	sysical and Chemical Characteristics	
Color	Grey to silver	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	2567 °C	
Melting Point:	1412 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	8.55 g/cc	
Molecular weight:	162.50 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Water, Halogens, Acid chlorides, Oxidizing agents	
Incompatible Conditions:	Air, Water/moisture	
Hazardous Decomposition Products:	Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/A	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	NA	
regravated incurear conditions.		
Median Lethal Dose:	N/A	
Carcinogen:	N/A N/A N/A N/A 12. Ecological Information	
	12. Ecological Information	
Aquatic Toxicity:	Low	
Persistent Bioaccumulation Toxicity:	No	
Very Persistent, Very Bioaccumulative:	No	
Notes:	N/A	
	13. Disposal Considerations	

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data				
Hazardous:	Hazardous as powder:			
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives			
Packing Group:	II			
UN Number:	UN3089			
Proper Shipping Name:	Metal powders, flammable, n.o.s. (Dysprosium powder)			
Hazardous:	Hazardous as pieces:			
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives			
Packing Group:	III			
UN Number:	UN3178			
Proper Shipping Name:	Flammable solid, inorganic, n.o.s. (Dysprosium)			
15. Regulatory Information				
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	No N/A No			
	16. Other Information			
This safety data sheet should be used in cor	junction with technical sheets. It does not replace them. The informatior			

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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