

## LTS Research Laboratories, Inc. Safety Data Sheet Dysprosium

1. Product and Company Identification				
Trade Name:	Dysprosium			
Chemical Formula:	Dy	Dy		
Recommended Use:	Scientific research and development			
Manufacturer/Supplier:	LTS Research Laboratories, Inc.			
Street:	37 Ramland Road			
City:	Orangeburg			
State:	New York			
Zip Code:	10962			
Country:	USA			
Tel #:	855-587-2436	5 / 855-lts-chem	1	
24-Hour Emergency Contact:		) (US & Canada 8887 (Internatio		
	2. Hazards Id		,	
Signal Word:	Danger			
	LTS	esearc toratorias, in	h na.	
Hazard Statements:	H228: Flammable solid H260: In contact with water releases flammable gases which may ignit 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 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/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. Com	position		
Chemical Family: Additional Names:	Rare earth me None	etal		
Dysprosium (Dy):				
Percentage:	100 wt%			
CAS #:	7429-91-6			
EC #:	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		
Error	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		
	Flammable as powder		
Extinguishing Media:	Do not use water for metal fires – use CO <sub>2</sub> , sand, extinguishing powde		
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.		
	6. Accidental Release Measures		
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in		
	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.		
	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		
Work/Hygienic Maintenance:	inert gas. Store apart from materials and conditions listed in section 10.		
	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with		
	compressed air.		
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.		
8.	Exposure Controls and Personal Protection		
	-		
Permissible Exposure Limits:	N/A 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		
Body Protection:	Protective work clothing. Wear close-toed shoes and long		
	sleeves/pants.		

	hysical and Chemical Characteristics		
Color	Grey to silver		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless Insoluble 2567 °C 1412 °C		
Water Solubility:			
Boiling Point:			
Melting Point:			
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		
	L		
Signs & Symptoms:	N/A boratorias log		
Aggravated Medical Conditions:	N/A		
Median Lethal Dose:	N/A		
Carcinogen:	N/A		
	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:		
	FLAMMABLE SOLID		
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:		
	FLAMMABLE SOLID		
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:	No.		
Sec 304 Reportable Quantities:	N/A		
Sec 313 Toxic Chemicals:	No		
	16. Other Information		

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.

Document Last Revised:

07/22/2015