

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

1. Product and Company Identification				
Trade Name:	Holmium			
Chemical Formula:	Но			
Recommended Use:	Scientific research and development			
Manufacturer/Supplier:	LTS Research Laboratories, Inc.			
Street:	2001 Oaks Pkwy			
City:	Belmont			
State:	North Carolina			
Zip Code:	28012			
Country:	USA			
Tel #:	855-587-243	86 / 855-lts-chem		
24-Hour Emergency Contact:	800-424-9300 (US & Canada)			
	+1-703-527-	-3887 (Internation	al)	
	2. Hazards	Identification		
Signal Word:	Danger	•		
Hazard Statements: Precautionary Statements:	<ul> <li>H228: Flammable solid</li> <li>P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking</li> <li>P240: Ground/bond container and receiving equipment</li> <li>P241: Use explosion-proof electrical/ ventilating/ lighting/ equipment</li> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P370+P378: In case of fire: Use special powder for metal fires for extinction</li> </ul>			
UMIS Health Datings (0, 4).	Powder	Pieces	Bulk	
HMIS Health Ratings (0-4): Health:	1	1	1	
Flammability:	3	2	1	
Physical:	2	1	1	
	3. Con	nposition		
Chemical Family:	Lanthanide	metal		
Additional Names:	None			
Holmium (Ho): Percentage: CAS #:	100 wt% 7440-60-0			

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9. P	hysical and Chemical Characteristics		
Color	Grey to silver		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless		
Water Solubility:	As powder, contact with water releases flammable gas		
	As bulk, N/A		
Boiling Point:	2700 °C		
Melting Point:	1474 °C		
Flash Point:	N/A		
Autoignition Temperature:	N/A		
Density:	8.795 g/cc		
Molecular weight:	164.930 g/mol		
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts With:	Acids, Acid chlorides, Water/moisture, Oxidizing agents, Halogens		
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:	Lanthanons can cause delayed blood clotting leading to hemorrhages		
	Exposure may also lead to sensitivity to heat, itching, increased		
	awareness of odor and taste, and liver damage.		
Signs & Symptoms:	nptoms: N/A		
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:	
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. (Holmium powder)	
Hazardous:	Hazardous as pieces:	
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives	
Packing Group:	II	
UN Number:	UN3178	
Proper Shipping Name:	Flammable solid, inorganic, n.o.s. (Holmium)	
	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.

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