

LTS Research Laboratories, Inc. Safety Data Sheet Erbium

1. Product and Company Identification			
Trade Name:	Erbium		
Chemical Formula:	Er		
Recommended Use:	Scientific res	earch and develo	pment
Manufacturer/Supplier:	LTS Researc	h Laboratories, Iı	IC.
Street:	2001 Oaks P	kwy	
City:	Belmont		
State:	North Caroli	na	
Zip Code:	28012		
Country:	USA		
Tel #:	855-587-243	6 / 855-lts-chem	
24-Hour Emergency Contact:	800-424-930	0 (US & Canada)	
	+1-703-527-	3887 (Internation	al)
	2. Hazards I	dentification	
Signal Word:	Danger	•	
Hazard Statements:	H228: Flamr H260: In con spontaneousl	tact with water re	l eleases flammable gases which may ignite
Precautionary Statements:	P210: Keep a smoking	away from heat/sp	parks/open flames/hot surfaces – No
	P223: Keep away from any possible contact with water, because of violent reaction and possible flash fire		
	P231+P232: Handle under inert gas. Protect from moisture		
	P240: Ground/bond container and receiving equipment		
	P241: Use explosion-proof electrical/ventilating/ lighting/ equipment		
	P280: Wear protective gloves/protective clothing/eye protection/face		
	protection		
	P302 + P335 + P334: IF ON SKIN: Brush off loose particles from skin.		
	Immerse in cool water/wrap in wet bandages		
	P370+P378: In case of fire: Use dry sand, dry chemical or alcohol- resistant foam to extinguish		
	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	0
Flammability:	3	2	1
Physical:	2	2	1
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3. Composition		
Chemical Family: Additional Names:	Rare earth metal None	
Erbium (Er):		
Percentage:	100 wt.%	
CAS #:	7440-52-0	
EC #:	231-160-1	
	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	
Eyes:	contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove	
Lycs.	contact lenses if present and easy to do. Continue rinsing	
	5. Firefighting Measures	
Flammability:	Flammable as powder and pieces	
Extinguishing Media:	Do not use water for metal fires – special 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.	
	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 dr	
	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	
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below	

Threshold Limit Value: None Special Equipment: None Respiratory Protection: Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a backup to engineering controls. Risk assessment should be performe to determine if air-purifying respirators are appropriate. Only use equipment (tested and approved under appropriate government standards. Protective Gloves: Nitrile rubber, NBR 0.11mm thick. Protection: Safety glasses or goggles, Full face protection Body Protection: Safety glasses or goggles, Full face protection Protective week clothing. Wear close-toed shoes and long steeves/pants. Color Silver grey Form: Powder, Granules, Pellets, Sputtering target, Custom parts NA Octo: N/A Boiling Point: 2868 °C Elsab Point: N/A Autoignition Temperature: N/A Molecular weight: 167.26 g/mol. Persoanch Incompatible Conditions/Materials: Mater/molitude, Aid organicon Nearchild Health Effects: Eyse: Eyse: May cause irritation Skin: May cause irritation Ingestion: May cause irritation Skin: May cause irritation Ingestion: May ca	8. Ez	xposure Controls and Personal Protection		
Special Equipment: None Respiratory Protection: Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a backup to engineering controls. Risk assessment should be performent standards. Protective Gloves: Nitrile rubber, NBR 0.11mm thick. Protective Gloves: Nitrile rubber, NBR 0.11mm thick. Protective Gloves: All failed and approved under appropriate government standards. Protective Gloves: Protection: Spectra of the protection Body Protection: Protective work clothing. Wear close-toed shoes and long sleeves/pants. 9. Physical and Chemical Characteristics Color Silver grey Form: Powder, Granules, Pellets, Sputtering target, Custom parts N/A Met Solubility: As powder/pieces: contact with water releases flammable gases, As bulk: hydrolyzes Boding Point: LSS °C Melting Point: N/A Mator Solubility: N/A Mator Solubility: Stable under recommended storage conditions Actids, acid chorides, halogens, Water, Oxidizing agents Mater/Molecular weight: 107.26 g/m01 Research Mater/Molecular weight: 11. Toxicological Information Potential Health Effects: Eys: May cause irritation Skin:	Permissible Exposure Limits:	None		
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Median Lethal Dose: N/A	Signs & Symptoms:	N/A		
	Aggravated Medical Conditions:	N/A		
Carcinogen: N/A	Median Lethal Dose:	N/A		
	Carcinogen:	N/A		

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	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
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. (Erbium 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. (Erbium pieces)
	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: