

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet Erbium

1. Product and Company Identification				
Trade Name:	Erbium			
Chemical Formula:	Er			
Recommended Use:	Scientific res	search and devel	opment	
Manufacturer/Supplier:	XI'AN FUN	CTION MATER	IAL GROUP CO., LTD	
Street:		lle Valley, High-		
City:	XI'AN	J 0		
State:	Shaanxi			
Zip Code:	710077			
Country:	China			
Tel #:	+86-29-88993	3870/+86-13519	132051	
	2. Hazards	Identification		
Signal Word:	Danger	<u>Ny</u>	EK	
Hazard Statements:	H228: Flamm	nable solid		
	H260: In con spontaneous		releases flammable gases which may ignite	
Precautionary Statements:	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking P231+P232: Handle under inert gas. Protect from moisture			
			s/protective clothing/eyeprotection/face	
	P370+P378: In case of fire: Use special powder for metal fires for extinction			
	P402+404: S	P402+404: Store in a dry place. Store in a closed container		
	P501: Dispos	P501: Dispose of contents/container in accordance with		
	local/regiona	l/national/intern	ational regulations	
HMIS Health Ratings (0-4):	Powder	Pieces	Bulk	
Health:	1	1	0	
Flammability:	3	2	1	
Physical:	2	2	1	
	3. Com	position		
Chemical Family:	Rare earth m	etal		
Additional Names:	None			
Erbium (Er):	100			
Percentage:	100 wt.%			
CAS #:	7440-52-0			
EC#:	231-160-1			

Seek medical attention if symptoms persist. None None
None
Damoya victim to frach air Sunnly awy can if breathing is different
Remove victim to fresh air. Supply oxygen if breathing is difficult.
Seek medical attention
Wash affected area with mild soap and water. Remove any
contaminated clothing.
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 and pieces
Do not use water for metal fires – special extinguishing powder.
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
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.
Isolate runoff to prevent environmental pollution.
7. Handling and Storage
Handle under dry protective gas. Wash thoroughly after handling.
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
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.
Provide sufficient ventilation to maintain concentration at or below threshold limit.
osure Controls and Personal Protection
N/A
N/A
None
Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a
backup to engineering controls. Risk assessment should be performed
to determine if air-purifying respirators are appropriate. Only use
equipment tested and approved under appropriate government
standards.
Nitrile rubber, NBR 0.11mm thick.
480 minutes

9. Physical and Chemical Characteristics			
Color	Silver grey		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	N/A		
Water Solubility:	As powder/pieces: contact with water releases flammable gases, As bulk: hydrolyzes		
Boiling Point:	2868 °C		
Melting Point:	1529 °C		
Flash Point:	N/A N/A 9.066 g/cc		
Autoignition Temperature:			
Density:			
Molecular weight:	167.26 g/mol		
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts with:	Acids, acid chlorides, halogens, Water, Oxidizing agents		
Incompatible Conditions/Materials:	Water/moisture, Air, Halogens, Acids, Acid Chlorides, Oxidizing		
	agents		
Hazardous Decomposition Products:	Erbium oxide fume		
1	1. Toxicological Information		
Potential Health Effects:			
Eyes:	May cause initation		
Skin:	May cause irritation		
Ingestion:	May cause irritation		
Inhalation:	May cause irritation		
Chronic:	N/A		
Signs & Symptoms:	N/A		
Aggravated Medical Conditions:	N/A		
	1714		
Median Lethal Dose:	N/A		
Carcinogen:	N/A		
	12. Ecological Information		
Aquatic Toxicity:	Low		
Persistent Bioaccumulation Toxicity:	No		
Very Persistent, Very Bioaccumulative:			
Notes:	N/A		
	13. Disposal Considerations		

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

14. Transportation Data		
Hazard ous:	Hazardous as powder:	
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives.	
Packing Group:	П	
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:	I	
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	

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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