

Material Safety Data Sheet

Erbium (Er) CAS# 7440 520

May be use to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

IDENTITY (As Used on Label and List)

U.S. Department of Labor

Occupational Safety and Health Administration

(Non-Mandatory Form) Form Approved OMB No. 1218-0072

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name	Emergency Telephone Number
Ames Laboratory, USDOE	515-294-3483
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information
121 Metals Development Building	515-294-1366
	Date Prepared
Materials Preparation Center, Iowa State University	3-30-88
	Signature of Preparer (optional)
Ames, IA 50011	

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	SHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Not established, low oral toxicity: LD ₅₀ orally > 1000mg chlor	ride/kg rat			

Section III — Physical/Chemical Characteristics

Boiling Point		Specific Gravity (H ₂ O = 1)	
	2870°C		9.066
Vapor Pressure (mm Hg.)		Melting Point	
	NA		1529°C
Vapor Density (AIR = 1)		Evaporation Rate	
	NA	(Butyl Acetate = 1)	NA

Solubility in Water

Negligible

Appearance and Odor

Silver metallic - odorless

No water, use lime

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)		Flammable Limits	LEL	UEL
	NA			
Extinguishing Media				
	Metal fire agent			
Special Fire Fighting Proceeds	iroc			

Unusual Fire and Explosion Hazards

Fine particles ignite readily and burn white hot.

(Reproduce locally) OSHA 174.Sept.1985

Section V —	Reactivity Data						
Stability	Unstable Conditions to Avoid						
	0:11		Fine particles under	oxic	izing conditions.		
	Stable	X					
Incompatibility (Ma		1	1				
Hazardous Decom	position or Byproducts	Acids					
		None known					
Hazardous Polymenzation	May Occur		Conditions to Avoid				
, , , , , , ,	Will Not Occur	х					
Section VI —	· Health Hazard		I				
Route(s) of Entry:	Inhala	ation?	Skin?			Ingestion?	
-		X					
Health Hazards (A		de (euch ae c	vides hydrovides cai	rhide	s etc) may irritat	te the skin, eyes, and mucous	
Overexposure	to some compound	us (such as c	naces, flydroxides, car	ibiae	s, etc.) may ima	te the skin, eyes, and mucous	
membrane.							
Carcinogenicity:	NTP?)	IARC Mor	nogra	ohs?	OSHA Regulated?	
Signs and Sympton	ms of Exposure						
Medical Conditions	3						
Generally Aggrava	ted by Exposure	Dust may	y aggravate respirator	y pro	blems		
Emergency and Fi	rst Aid Procedures						
Section VII -	- Precautions fo	or Safe Han	dling and Use				
	in Case Material Is Re	leased or Spille	d				
Sweep-up spille	ed material.						
Waste Disposal Me	ethod se of in an approve	ad chemical l	andfill				
Normal dispos	sc of ill all approve	onemical i	andiii.				
Precautions to Be	Taken in Handling and	Storing					
Avoid strongly oxidizing conditions.							
Other Precautions Finely divided metal can oxidize rapidly store under inert conditions.							
Section VIII — Control Measures							
Respiratory Ptortection (Specify Type)							
Wear a respirator if dusting is a problem. Ventilation Local Exhaust Special							
ventilation	Provide for dust				NA		
	Mechanical (General)				Other NA		
Protective Gloves	NA			Prote			
Recommended					nended		
Other Protective Clothing or Equipment None							
Work/Hygenic Prac	ctices						
NA NA							