

Material Safety Data Sheet

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)

Europium (Eu) CAS# 7440 531

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

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

Section III — Physical/Chemical Characteristics

Boiling Point		Specific Gravity (H ₂ O = 1)	
	1529°C		5.243
Vapor Pressure (mm Hg.)		Melting Point	
	NA		822°C
Vapor Density (AIR = 1)		Evaporation Rate	
	NA	(Butyl Acetate = 1)	NA

Solubility in Water

Reacts to form hydrogen

Appearance and Odor

Silver metallic

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
NA		NA	NA
Extinguishing Media			

Extinguishing Media

Metal fire agent, CO₂

Special Fire Fighting Procedures

No water, use lime

Unusual Fire and Explosion Hazards

May ignite during machining operations. Fine particles ignite readily and burn white hot.

(Reproduce locally) OSHA 174.Sept.1985

Section V —	Reactivity Data						
Stability	Unstable		Conditions to Avoid Thin foils and powders in air, heat and flame.				
	Stable						
Incompatibility (Ma	terials to Avoid)	Х	Bulk metals oxidiz	ze with	prolonged expos	sure to air.	
		Acids					
Hazardous Polymenzation	May Occur		Conditions to Avoid				
	Will Not Occur	X					
Section VI —	Health Hazard I	Data					
Route(s) of Entry:	Inhala		Skin?			Ingestion?	
Health Hazards (Ad	cute and Chronic)	X .				X	
Overexposure t	to some compound	ls (such as o	xides, hydroxides, o	carbide	es, etc.) may irrita	ate the skin, eyes, and mucous	
membrane.							
Carcinogenicity:	NTP? None		IARC I	Monogra	aphs?	OSHA Regulated?	
Signs and Symptor	ns of Exposure Non e	7					
	TVOIL	,					
Medical Conditions		Dust			- l- l		
Generally Aggravat	ted by Exposure	Dust may	y aggravate respirat	itory pr	obiems		
Emergency and Fir	st Aid Procedures						
Section VII —	- Precautions fo		oosed skin and eye	es with	water.		
	in Case Material Is Rel		•				
Sweep-up spille	ed material.						
Waste Disposal Me	athod						
•		conditions an	d dispose of in app	oroved	chemical landfill.		
	Taken in Handling and eart gas to prevent o	-					
Store under ment gas to prevent oxidation.							
Other Precautions Finely divided metal can oxidize rapidly store under inert conditions.							
Section VIII — Control Measures							
	ction (Specify Type)						
Vear a respirat	tor if dusting is a pr Local Exhaust	oblem.			Special		
	Provide for dust Mechanical (General)				NA Other		
	NA (General)				NA		
Protective Gloves Recommended				Eye Prote Recom	ection mended		
Other Protective Clothing or Equipment							
Lab coat Work/Hygenic Practices							
Do not eat or smoke in the area.							