

Material Safety Data Sheet

Lutetium (Lu) CAS# 7439 943

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)) OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)		
Not established, low oral toxicity: LD ₅₀ orally > 1000mg chloride/kg rat					

Section III — Physical/Chemical Characteristics

Boiling Point		Specific Gravity (H ₂ O = 1)	
	3402°C		9.840
Vapor Pressure (mm Hg.)		Melting Point	
	NA		1663°C
Vapor Density (AIR = 1)		Evaporation Rate	
	NA	(Butyl Acetate = 1)	NA

Solubility in Water

Negligible

Appearance and Odor

Silver metallic - ordorless

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 Procedures				

Unusual Fire and Explosion Hazards

Fine particles ignite readily and burn white hot.

(Reproduce locally) OSHA 174.Sept.1985

Coation V	Dogotivity Doto				
	Reactivity Data	1	Canditions to Assaid		
Stability	Unstable		Conditions to Avoid Fine particles unde	er oxidizina con	ditions
	Stable		Time particles arias	orial Englant	
		Χ			
Incompatibility (Ma	·	Acids			
Hazardous Decom	position or Byproducts	None known			
Hazardous	May Occur		Conditions to Avoid		
Polymenzation	Will Not Occur	X			
Section VI —	Health Hazard I	I			
Route(s) of Entry:	Inhala	ition?	Skin?		Ingestion?
Health Hazards (A		<			
		ls (such as o	xides, hydroxides, ca	arbides, etc.) m	ay irritate the skin, eyes, and mucous
membrane.					
Carcinogenicity:	NTP?		IARC M	onographs?	OSHA Regulated?
Signs and Symptor	ns of Exposure				
Medical Conditions		Duet me	, aggravata raanirata	am a na hlama	
Generally Aggravat	ted by Exposure	Dustilla	y aggravate respirato	лу рговієніѕ	
Emergency and Fir	st Aid Procedures				
Section VII —	- Precautions fo	r Safe Han	dling and Use		
	in Case Material Is Rel				
Sweep-up spille	ed material.				
Waste Disposal Me	athod				
	ethod ese of in an approve	ed chemical	landfill.		
	Taken in Handling and	-			
Avoid strongly oxidizing conditions.					
Other Precautions					
Finely divided metal can oxidize rapidly store under inert conditions.					
Section VIII -	– Control Meası	ıres			
	ction (Specify Type)	ahlam			
Ventilation	tor if dusting is a pr Local Exhaust	obiem.		Special	
_	Provide for dust Mechanical (General)			NA Other	
	NA NA			NA	
Protective Gloves Recommended				e Protection ecommended	
Other Protective Clothing or Equipment					
None					
Work/Hygenic Prac	ctices				