

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) Gadolinium (Gd) CAS# 7440 542

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 ch	hloride/kg rat			
, , , , , ,				

Section III — Physical/Chemical Characteristics

Boiling Point		Specific Gravity (H ₂ O = 1)	
	3273°C		7.900
Vapor Pressure (mm Hg.)		Melting Point	
	NA		1313°C
Vapor Density (AIR = 1)		Evaporation Rate	
	NA	(Butyl Acetate = 1)	NA

Solubility in Water

Negligible

Appearance and Odor

Silver metallic - ordorless

Section IV — Fire and Explosion Hazard Data

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

Metal fire agent

Special Fire Fighting Procedures

No water, use lime

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						
	Ctable		Fine particles under o	xidizing con	ditions.		
	Stable	X					
Incompatibility (Ma		1					
Hazardous Decom	position or Byproducts	Acids					
		None known					
Hazardous Polymenzation	May Occur		Conditions to Avoid				
1 diyinchzatlon	Will Not Occur						
		X					
	Health Hazard						
Route(s) of Entry:	Inhala	ation? X	Skin?		Ingestion?		
Health Hazards (A		Λ					
Overexposure	to some compound	ds (such as c	xides, hydroxides, carb	ides, etc.) m	ay irritate the skin, eyes, and mucous		
membrane.							
Carcinogenicity:	NTP?)	IARC Mono	graphs?	OSHA Regulated?		
	None	e					
	. –						
Signs and Sympton None	ms of Exposure						
Medical Conditions	<u> </u>						
Generally Aggrava	ted by Exposure	Dust may	y aggravate respiratory	problems			
Emergency and Fi	rst Aid Procedures						
Section VII	Droccutions fo	r Cafa Han	dling and Llas				
	- Precautions for in Case Material Is Re		_				
Sweep-up spille		icasca or opine	u				
Waste Disposal Me	ethod						
Normal - dispos	se of in an approve	ed chemical I	andfill.				
	Taken in Handling and						
Avoid strongly oxidizing conditions.							
Other Precautions							
Finely divided metal can oxidize rapidly store under inert conditions.							
Section VIII -	- Control Measi	ures					
	ction (Specify Type)						
Wear a respiration	tor if dusting is a p	roblem.		Special			
ventilation	Provide for dust				NA		
	Mechanical (General)			Other			
Protective Gloves	NA		Eve P	NA rotection			
Recommended	Recommended Recommended						
Other Protective Clothing or Equipment None							
Work/Hygenic Prac	ctices						
NA NA							