

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*) Neodymium (Nd) CAS# 7440008

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	nloride/kg rat			

Section III — Physical/Chemical Characteristics

		51131103			
Boiling Point			Specific Gravity ($H_2O = 1$)		
0		3074°C			7.007
Vapor Pressure (mm Hg.)			Melting Point		
		NA			1021°C
Vapor Density (AIR = 1)			Evaporation Rate		
		NA	(Butyl Acetate = 1)		NA
Solubility in Water					
	Negligible				
Appearance and Odor					
	Silver metallic				
Section IV — Fire a	nd Explosion Hazard	Data			
Flash Point (Method Used)			Flammable Limits	LEL	UEL
	NA			NA	NA
Extinguishing Media			-		
	Metal fire agent, CO ₂				
Special Fire Fighting Proced	ures				
	No water, use lime				
Unusual Fire and Explosion	Hazards				
May ignite during machining operations. Fine particles ignite readily and burn white hot.					

Section V — Reactivity Data						
Stability	Stability Unstable Conditions to Avoid					
	Thin foils and powders in air			in air, heat and	flame.	
	Stable	x	Bulk metals oxidize wit	h prolonged exp	posure to air.	
Incompatibility (Ma		Acids				
Hazardous Decom	position or Byproducts	ACIUS				
	May Occur		Conditions to Avoid			
Hazardous Polymenzation						
	Will Not Occur	x				
Section VI —	Health Hazard I					
Route(s) of Entry:	Inhala	ation?	Skin?		Ingestion?	
		X			X	
Health Hazards (A	,	la (auch an a	widee bydrewidee eerbig	loo oto) movin	ritate the alking avec, and mucaus	
Overexposure	to some compound	is (such as c	Dides, hydroxides, carbid	ies, etc.) may ir	ritate the skin, eyes, and mucous	
membrane.						
Carcinogenicity:	NTP? None		IARC Monog	raphs?	OSHA Regulated?	
		5				
Signs and Sympton						
	None	9				
Medical Conditions	<u>,</u>					
Generally Aggrava		Dust ma	y aggravate respiratory p	roblems		
			<u>, , , , , , , , , , , , , , , , , , , </u>			
Emergency and Fir	rst Aid Procedures					
			posed skin and eyes with	n water		
	 Precautions fo 					
Steps to Be Taken Sweep-up spille	in Case Material Is Rel ed material.	leased or Spille	d			
Waste Disposal Me	ethod					
Allow to oxidize	e under controlled of	conditions ar	nd dispose of in approved	d chemical landf	<u>ill</u>	
	T -1	01				
	Taken in Handling and ert gas to prevent o	•				
Other Precautions		anaiallu ata				
Finely divided i	netal can oxidize n	apidiy sic	ore under inert conditions	•		
Section VIII -	– Control Measu	ires				
	ction (Specify Type)					
Wear a respirat	tor if dusting is a pi Local Exhaust	roblem.		Special		
Provide for dust			NA			
	Mechanical (General)			Other		
Protective Gloves	NA		Eye Pro	NA tection		
Recommended Recommended						
Other Protective Clothing or Equipment						
	Lab coat Work/Hygenic Practices					
Do not eat or smoke in the area.						