

NEODYMIUM

Section I

Kurt J. Lesker Company 1925 Worthington Avenue Clairton, PA 15025 Ph: 412/387-9200 Fax: 412/233-4275		Emergency Phone Numbers Chemtrec 800/424-9300 Poison Center 800/562-8236	
Chemical Name and Synonyms Neodymium		Date of Last Revision 8/13/96	
Formula Nd	Chemical Family Lanthanide Metal	Chemical Abstract No.	
TSCA		Calc. Molecular Wt.	

Section II Hazardous Ingredients

Hazardous Ingredients	CAS #	%	TLV	OSHA PEL
Neodymium			15mg/m ³	

Section III Physical Data

Boiling Point (0°C):	Density (gmcc):
Vapor Pressure:	% Volatile by Volume:
Reaction with Water:	Evaporation Rate (H ₂ O -1):
Solubility in Water:	Melting Point (°C):
Appearance and Odor: Metallic	Other Comments:

Section IV Fire & Explosion Hazard Data

Flash Point (method)	Autoignition Temp.	Flammability	LEI	UEI
Extinguishing Media:				
Special Fire Fighting Procedures: Smother with dry sand or dry powder type agents specifically designed for metal powder fires. DO NOT use CO ₂ extinguishers or water.				
Unusual Fire and Explosion Hazards: Grinding or cutting may form explosive dust-air mixture. Striking with metallic objects will cause sparking.				

Section V Spill or Leak Process

Steps to be Taken in Case Material is Released or Spilled: Striking product with metallic objects may cause sparking or fire. Avoid damp conditions. Metal may react with air and/or atmospheric moisture and may spontaneously catch fire. See handling and storage precautions.
Waste Disposal Method (Consult federal, state or local authorities)

for proper disposal procedures.): Dispose of used product in accordance with applicable local, county, state, and federal regulations.

Section VI Health Hazard Data

Toxicity Data		HMIS Hazard Rating Health: Flammability: Reactivity: Personal Protection:	
Route(s) of Entry	Inhalation:	Skin:	Ingestion:
Effects of Overexposure (acute and chronic) Inhalation: Breathing dusts may result in irritation of the nose and throat. Repeated exposure to dusts in excess of the recommended exposure limits over a long period can lead to accumulation of dust in the lung, resulting in inflammation and, in time, scarring of lung tissue. Dermal: Contact with broken skin may be severely irritation and result in redness, burning, swelling and skin damage. Eye Contact: Contact with dusts may be abrasive and irritating, causing burning, tearing and redness. Other (specify): Accidental ingestion of dusts may cause irritation of the digestive tract.			
Medical Conditions Generally Aggravated by Exposure:			
Carcinogenicity:	NTP:	IARC Monographs:	OSHA Regulations:
Emergency and First Aid Procedures Ingestion: Do not give anything by mouth. Prevent aspiration by observing the victim. If comatose or lethargic, place on the left side with head down. Seek medical attention Inhalation: If irritation of the nose or throat occurs, move away from exposure and into fresh air. If irritation persists, seek medical attention. If victim is not breathing or if breathing difficulties develop, artificial respiration or oxygen should be administered by qualified personnel. Seek immediate medical attention. Skin Contact: Remove contaminated clothing and flush affected area(s) with large quantities of clean water. If irritation or redness develops and persists, seek medical attention. Eye Contact: For contact with dusts, flush affected eye(s) with clean water. If irritation or redness develops, seek medical attention.			

Section VII Reactivity Data

Stable: Unstable: X	Conditions Contributing to Instability: Minimize contact with air and moisture; may spontaneously react with air and/or water.
Incompatibility (materials to avoid): Air, water, strong acids, oxidizing agents.	
Hazardous Decomposition Products - Thermal and Other (list): Contact with strong acids may cause evolution of hydrogen.	
Hazardous Polymerization May Occur:	Conditions to Avoid:

Will Not Occur:	
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Section VIII Special Protective Information

Respiratory Protection (specify type). Use Only Niosh Approved Equip.
If airborne concentrations exceed recommended exposure limits, a suitable filter type dust respirator should be worn.

Ventilation (always maintain exposure below permissible limits)
Local Exhaust: If current ventilation practices are not adequate in maintaining airborne concentrations below the recommended exposure limits, additional ventilation or explosion proof local exhaust systems may be required.

Mechanical (general):

Special:

Other:

Protective Gloves: Recommended

Eye Protection: Recommended

Other Protective Equipment/Work Practices: It is suggested that a source of clean water be available in the work area for flushing eyes and skin.

Section IX Special Precautions

Precautions to be Taken in Handling and Storing: Keep dry. Avoid contact with oxidizing agents. Fine powder should not be agitated in air. Store under light mineral oil or take other steps to slow or prevent spontaneous oxidation in air. Use of dry, inert atmosphere strongly recommended when machining or handling powder. Grinding in air may create pyrophoric conditions and/or hazardous dust. Contact with metallic objects may cause sparking.

Transportation Requirements

DOT Class: Flammable Solid

UN Number:

IMCO Class:

Other:

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, the Kurt J. Lesker Company makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon: User should satisfy himself that he had all current data relevant to his particular use.

ND = NO DATA FOUND

NA = NOT APPLICABLE