



Section 1 - Product Name

Product Name: Neodymium Powder

Section 2 - Hazardous Ingredients

Chemical Name: NdFeB Powder

Material/Component(s):

Material or Component	Weight %	CAS No.	ACGUH TLV (mg/m ³)
Neodymium and other rare earth elements	(low amounts)	7440-00-8	Not established

Section 3 - Physical Characteristics

Vapor Pressure: N/A

Vapor Density: Heavier than air

Specific Gravity: 7.64

Melting Point: Above 1000° C

Evaporation Rate: Butyl Acetate = 1

Odor: No odor

Solubility in Water: Nil

Section 4 - Fire and Explosion Hazard Data

Flash Point: N/A

FLAMMABLE LIMITS: N/A

LEL: N/A

UEL: N/A

Extinguishing Media: Dry chemicals without Oxygen compounds.

Special Fire Fighting Procedures: Do not use Halon agents or water. Isolate and contain source of fire. Smother with dry chemical or blanket with dry argon or nitrogen gas.

Unusual Fire and Explosion Hazards(s): Powder will oxidize and burn rapidly and intensely when exposed to atmosphere or oxygen. Rare earth metals burn vigorously in halogen vapors above 392 F. May re-ignite after fire is extinguished. Probably will react violently with water and liberate hydrogen.

Section 5 - Reactivity Data



Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Oxygen, atmosphere, halogenated hydrocarbons, strong oxidizers.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition or Byproducts : Hydrogen may be released when powders react with water.

Section 6 - Health Hazard Data

Health Hazards (Acute & Chronic): Under normal handling and use, exposure to Neo presents few or no health hazards. Skin or eye irritation in sensitive individuals may occur.

Emergency and First Aid Procedures:

Procedure For	Procedure
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Section 7 - Precautions for Safe Handling and Use

Spill Procedure: Prevent integration of material with oxidizing substances. Brush up material and seal in an airtight container.

Waste Disposal Method: Store waste in water filled cans. Add powder to water. Store powder under inert atmosphere in non-combustible containers. Treat as a flammable solid. Keep powder away from ignition sources and oxidizers. Use water during machining processes to control sparking of the swarf.

Section 8 - Control Measures

Respiratory Protection: With powders or dust use proper ventilation and/or respiratory protection.

Eye Protection: Protected goggles are recommended when working on finished parts or powder due to chipping and breaking tendencies.

Skin Protection: Protect open wounds, cuts, or abrasions from direct contact with dust or powder.

Ventilation: Local Exhaust: Use for dust and iron fumes when machining or pulverizing.

Work / Hygienic Practices: Always handle with care, do not risk fire.