Section 1 - Product Name

**Product Name:** Neodymium Powder

Section 2 - Hazardous Ingredients

**Chemical Name:** NdFeB Powder

**Material/Component(s):**

<table>
<thead>
<tr>
<th>Material or Component</th>
<th>Weight %</th>
<th>CAS No.</th>
<th>ACGUH TLV (mg/m^3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boron(oxide)</td>
<td>10mg/cm3</td>
<td>1303-86-2</td>
<td>Less than 3%</td>
</tr>
<tr>
<td>Neodymium and other rare earth elements</td>
<td>(low amounts)</td>
<td>7440-00-8</td>
<td>Not established</td>
</tr>
</tbody>
</table>

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:**

<table>
<thead>
<tr>
<th>Procedure For</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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.