

## Material Safety Data Sheet

Identity: Neodymium

Formula: Nd

### SECTION I - GENERAL INFORMATION

Manufacturer: [Stanford Advanced Materials](#) (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM makes no warranty, expressed or implied with respect to such information and assumes no liability resulting from its use.

### SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CAS #	OSHA PEL	ACGIH TLV	Other	%
7440-00-8	N/E	N/E		100%

### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: 3074 °C

Vapor Pressure: N/A

Melting Point: 1021-1024 °C

Vapor Density: N/A

Evaporation Rate: N/A

Percent Volatile: NE

Solubility in water: Decomposes

Specific Gravity: (water=1): 7.008 gm/cc

*Appearance and odor:* Gray pieces, no odor

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

*Flash Point:* NA*Extinguishing Media:*

Use suitable extinguishing media for surrounding materials and type of fire. Fire fighters must wear full face self-contained breathing apparatus. Fumes from fire are hazardous.

*Explosive Hazards:* Reacts violently with air, halogens, nitrogen phosphorous above 400 °C.

SECTION V - REACTIVITY DATA

*Stability:* Unstable

*Conditions to Avoid (stability):* Air and moisture.

*Incompatibility:* Air, moisture, halogens, acids, phosphorus and nitrogen and oxidizing agents.

*Hazardous Decomposition or Byproducts:* Hydrogen gas and oxides of neodymium

*Hazardous Polymerization:* Will not occur

*Conditions to avoid (hazardous polymerization):*

SECTION VI - HEALTH HAZARD DATA

*Routes of entry:* Inhalation?      Skin?      Eyes?      Ingestion?      Other?

*Health Hazards (Acute and Chronic):*

*Inhalation:*

*Acute:* .      May cause irritation to the respiratory tract and mucous membrane. May cause asthma attacks or lung damage.

*Chronic:*      May cause writhing, loss of muscle coordination, labored respiration, sedation, hypotension, and cardiovascular failure.

*Ingestion:*

*Acute:*      Low toxicity by ingestion due to poor absorption. May cause gastrointestinal irritation...

*Chronic:*      May affect the coagulation rate of the blood.

*Skin:*

*Acute:*      May cause irritation, rashes and skin granulomas.

*Chronic:*      May cause dermatitis, sensitivity to heat, itching and skin lesions.

*Eye:*

*Acute:*      May cause irritation.

*Chronic:*      No chronic health effects recorded

*Target Organ:*

*Carcinogenicity:* NTP?      IARC Monographs?      OSHA Regulated?

*Medical Conditions Aggravated by Exposure:*

*Emergency and First Aid Procedures:*

*Inhalation:*      Remove victim to fresh air, keep warm and quiet, and give oxygen if breathing is difficult; seek medical attention.

*Ingestion:*      Give 1-2 glasses of milk or water and induce vomiting if victim is conscious, keep warm and quiet; seek medical attention.

*Skin:*      Remove contaminated clothing, brush material off skin, wash affected area with mild soap and water, and seek medical attention if symptoms persist.

*Eye:*      Flush eyes with lukewarm water, lifting upper and lower eyelids for at least 15 minutes and seek medical attention if symptoms persist.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

*Steps to be taken in case material is released or spilled:*

Wear appropriate respiratory and protective equipment specified in section VIII-Control Measures. Isolate spill area, provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust. Use non-sparking tools.

*Waste disposal method:*

Dispose of in accordance with state, local, and federal regulations.

*Hazard Label Information:*

Store in cool, dry area and in tightly sealed container. Wash thoroughly after handling.

SECTION VIII - CONTROL MEASURES

*Protective Equipment Summary (Hazard Label Information):*

NIOSH/MSHA approved respirator, impervious gloves, safety glasses, clothes to prevent contact.

*Ventilation:*

Local Exhaust: To maintain concentration at low exposure levels.

Mechanical (General): Recommended.

Protective Gloves: Rubber gloves      Eye Protection: Safety glasses

*Other protective Clothing or Equipment:*

Protective gear suitable to prevent contamination.

*Work/Hygienic/Maintenance Practices:*

Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

Please be advised that N/A can either mean Not Applicable or No Data Has Been Established