NEODYMIUM

SAFETY DATA SHEET

DATE OF LAST REVISION: 06/30/15

Section 1: Identification

Product Name: Neodymium CAS Number: 7440-00-8 / EC Number: 231-109-3 Company: Angstrom Sciences, Inc. 40 South Linden Street Duquesne, PA 15110 For more information call: 412-469-8466 (Monday - Friday 9:00 AM -5:00 PM EST)

Section 2: HAZARD IDENTIFICATION

Signal Word: Danger



Hazard Statements:	H252: Self-hea	s fire spontaneously if exposed to air. ating in large quantities, may catch fire. act with water releases flammable gases which may ignite
Precautionary Statements:	smoking. P222: Do not P231 + P232: P370 + P378: P422: Store o P501: Dispose	way from heat/sparks/open flames/hot surfaces - No allow contact with air. Handle under inert gas. Protect from moisture. In case of fire Use CO ₂ , sand, powder for extinction. ontents under inert gas. e of contents/container in accordance with national/international regulations.
HMIS Health Ratings (O-4): Health: Flammability: Physical:	Powder 1 3 2	Bulk 1 1 1

Section 3: Composition/Information on Ingredients

Chemical characterization: Metal CAS# Description: 7440-00-8 Percentage: 100 wt% EC number: 231-109-3

Section 4: FIRST AID MEASURES

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None

Important Symptoms: None

Eye Contact: Flush eyes with water, blinking often for several minutes. Remove contact lenses if

present and easy to do. Continue rinsing.

Skin Contact: Wash affected area with mild soap and water. Remove any contaminated clothing. Inhalation:Remove to fresh air. If required, give artificial respiration. Seek medical advice. Ingestion: Seek medical attention

ingestion. Seek medical attention

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing Media: Do not use water for metal fires - use CO₂, sand, extinguishing powder. Flammability: Catches fire spontaneously if exposed to air, pyrophoric (powder) Non-powders are non-flammable.

Special Fire Fighting Procedure: Use full-face, self contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

Section 7: HANDLING AND STORAGE

Handling Precautions for safe handling: Handle under dry protective gas. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in Section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Permissible Exposure Limits:	N/A		
Threshold Limit Value:	N/A		
Special Equipment:	None		
Respiratory Protection:	Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.		
Protective Gloves:	Rubber gloves		
Eye Protection:	Safety glasses or goggles		
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Color:	Grey
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	3027°C
Melting Point:	1024.4°C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	7.01 g/cc
Molecular Weight:	144.24 g/mol

Section 10: STABILITY AND REACTIVITY

Reactivity:	Reacts with oxidizing agents, halogens
Chemical Stability:	Stable under recommended storage conditions
Incompatible Conditions:	Air, water/moisture
Hazardous Decomposition Products:	Metal oxide fume, Hydrogen, Neodymium oxide

Section 11: TOXICOLOGICAL INFORMATION

Potential Health Effects: Eyes: Causes irritation effect

Skin: Irritant to skin and mucous membranes

Ingestion: May cause irritation

Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A

Section 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: Low

Persistence Bioaccumulation Toxicity: No

Very Persistent, Very Bioaccumulative: No

Notes: N/A

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, national, and international regulations

Section 14: TRANSPORT INFORMATION



Hazard Class:4.2 Substance liable to spontaneous combustionPacking Group:IUN Number:UN1383Proper Shipping Name:Pyrophoruc netaksm n.o.s. 9Neodymium powder)

Section 15: REGULATORY INFORMATION

Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	No

Section 16: OTHER INFORMATION

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.