

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Neodymium Silicide

Product Number: All applicable American Elements product codes, e.g. ND-SID-05-I , ND-SID-05-L , ND-SID-05-P , ND-SID-05-ST

CAS #: 12137-04-1

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351

Emergency telephone number:

+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Signal Word: None Hazard Statements: None Precautionary Statements: None HMIS Health Ratings (0-4): Health: 1 Flammability: 0 Physical: 1

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family: Ceramic Additional Names: None Neodymium silicide (NdSi₂): Percentage: 100 wt%
CAS #: 12137-04-1 EC #: NIL

SECTION 4. FIRST AID MEASURES

General Treatment: Seek medical attention if symptoms persist. Special Treatment: None Important Symptoms: None Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Ingestion: Seek Medical Attention. Skin: Wash affected area with mild soap and water. Remove any contaminated clothing. Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

SECTION 5. FIREFIGHTING MEASURES

Flammability: Non-flammable, except as powder Extinguishing Media: Do not use water for metal fires – use CO₂, sand, extinguishing powder. Spec. 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

If Material Is Released/Spilled: 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 Conditions: Wash thoroughly after handling. Storage Conditions: 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 CONTROLS/PERSONAL PROTECTION

Permissible Exposure Limits: N/A Threshold Limit Value: N/A Special Equipment: None Respiratory Protection: Dust Respirator 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

Color Grey Form: Solid in various forms Odor: Odorless Water Solubility: Insoluble Boiling Point: N/A Melting Point: N/A Flash Point: N/A Autoignition Temperature: N/A Density: N/A Molecular weight: 200.41 g/mol

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions Reacts With: Oxidizing agents Incompatible Conditions: None Hazardous Decomposition Products: Metal oxide fume

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects: Eyes: May cause irritation Skin: May cause irritation Ingestion: May cause irritation Inhalation: May cause irritation Chronic: Inorganic silicon compound may be acute inhalation irritants. Prolonged inhalation may cause pulmonary fibrosis known as silicosis. Lanthanons can cause delayed blood clotting leading to hemorrhages. Exposure may also lead to sensitivity to heat, itching, increased awareness of odor and taste, and liver damage. Signs & Symptoms: N/A Aggravated Medical Conditions: N/A Median Lethal Dose: N/A Carcinogen: N/A

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Low Persistent 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

Hazardous: Not hazardous for transportation. Hazard Class: N/A Packing Group: N/A UN Number:
N/A Proper Shipping Name: N/A

SECTION 15. REGULATORY INFORMATION

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

SECTION 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.