

# SAFETY DATA SHEET

Date Printed: 05/23/2024 Date Revised: 01/15/2022

### **SECTION 1. IDENTIFICATION**

Product Identifier: (5N) 99.999% Nickel Nitride Sputtering Target

Product Code: NI-N-05-ST

CAS Number: N/A

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**

Emergency Overview OSHA Hazards: no data available NFPA Rating: Health Hazard: no data available Fire: no data available Reactivity Hazard: no data available For additional information on toxicity, please refer to Section 11.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula: NiN Molecular Weight: 204.09 g/mol CAS #: no data available

### **SECTION 4. FIRST AID MEASURES**

General advice

Move out of dangerous area. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of skin contact Wash off with soap and plenty of water. In case of eye contact Flush eyes with water as a precaution. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for firefighters Wear self contained breathing apparatus for fire fighting if necessary. Hazardous combustion products no data available

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions Avoid dust formation. Avoid breathing vapors, mist or gas. Environmental precautions Do not let product enter drains. Methods and materials for containment and cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Conditions for safe storage Keep container tightly closed in a dry and well-ventilated place.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands. Eye protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin and body protection Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Hygiene measures General industrial hygiene practice.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance Form powder or solid in various forms Color dark grey Safety data pH no data available Melting point/freezing point Melting point/range: no data available Boiling point no data available Flash point no data available Ignition temperature no data available Autoignition temperature no data available Lower explosion limit no data available Upper explosion limit no data available Vapor pressure no data available Density no data available Water solubility no data available Partition coefficient: n-octanol/water no data available Relative vapor density no data available Odor no data available Odor Threshold no data available Evaporation rate no data available

## SECTION 10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions no data available Conditions to avoid no data available Materials to avoid no data available Hazardous decomposition products no data available

# SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50 no data available Inhalation LC50 no data available Dermal LD50 no data available Other information on acute toxicity no data available Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity IARC: no data available ACGIH: no data available NTP: no data available OSHA: no data available Reproductive toxicity no data available Teratogenicity no data available Specific target organ toxicity - single exposure (Globally Harmonized System) no data available Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available Aspiration hazard no data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Synergistic effects no data available

#### SECTION 12. ECOLOGICAL INFORMATION

Toxicity no data available Persistence and degradability no data available Bioaccumulative potential no data available Mobility in soil no data available PBT and vPvB assessment no data available Other adverse effects no data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT (US) no data available IMDG no data available IATA no data available

#### **SECTION 15. REGULATORY INFORMATION**

**OSHA** Hazards no data available SARA 302 Components no data available SARA 313 Components no data available SARA 311/312 Hazards no data available Massachusetts Right To Know Components no data available Pennsylvania Right To Know Components no data available New Jersey Right To Know Components no data available California Prop. 65 Components no data available

### **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.