

# SAFETY DATA SHEET

**Date Printed:** 05/16/2024 **Date Revised:** 01/15/2022

## **SECTION 1. IDENTIFICATION**

Product Identifier: (4N) 99.99% Nickel Nitride Sputtering Target

Product Code: NI-N-04-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: +1 310-208-0551

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

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