

# SAFETY DATA SHEET

Date Printed: 04/20/2024 Date Revised: 01/15/2022

# **SECTION 1. IDENTIFICATION**

Product Identifier: (3N) 99.9% Niobium Disulfide

Product Code: NB-S2-03

**CAS Number:** 12136-97-9

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

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Emergency telephone number:

+1 800-424-9300

# **SECTION 2. HAZARDS IDENTIFICATION**

**Emergency Overview OSHA Hazards** 

No known OSHA hazards

**HMIS Classification** Health Hazard: 1 Flammability: 0 Physical hazards: 0 NFPA Rating

Health Hazard: 1

Fire: 0

Reactivity Hazard: 0 Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

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

Formula: NbS2

Molecular Weight: 124.97 g/mol

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

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**

Flammable properties

Flash point no data available

Ignition temperature no data available

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions

Avoid dust formation.

**Environmental precautions** 

No special environmental precautions required.

Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

# **SECTION 7. HANDLING AND STORAGE**

Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

For prolonged or repeated contact use protective gloves.

Eye protection Safety glasses

Hygiene measures

Constraint in direction by rain

General industrial hygiene practice.

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

Appearance

Form: Crystalline/Powder

Color: Grey Safety data

pH no data available

Melting point: no data available Boiling point: no data available Flash point: no data available

Ignition temperature: no data available Lower explosion limit: no data available Upper explosion limit: no data available

Density: no data available

Water solubility: no data available

# **SECTION 10. STABILITY AND REACTIVITY**

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Hydrogen peroxide, Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Molybdenum oxides

# **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity

LC50 Inhalation - rat - 4 h - > 2,820 mg/m3

Remarks: Lungs, Thorax, or Respiration:Other changes.

Irritation and corrosion: no data available

Sensitisation: no data available

Chronic expolARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.sure

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

# **SECTION 12. ECOLOGICAL INFORMATION**

Elimination information (persistence and degradability) no data available
Ecotoxicity effects
no data available
Further information on ecology
no data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

Product

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

# **SECTION 14. TRANSPORT INFORMATION**

DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

# **SECTION 15. REGULATORY INFORMATION**

OSHA Hazards
No known OSHA hazards
DSL Status
All components of this product are on the Canadian DSL list.
SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards

No SARA Hazards

# **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.