

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Identifier: 5N (99.999%) Bis(1-dimethylamino-2-methyl-2-butoxy)nickel(II)

Product Code: NI-OMX-05-LIQ

CAS Number: 942311-35-5

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

Hazards description



Emergency Overview

OSHA Hazards: Toxic, Harmful

Information pertaining to particular dangers for mans and environment

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R 43 May cause sensitization by skin contact

R 45 May cause cancer.

HMIS Classification: Health: 1; Flammability: 1; Reactivity: 1

NFPA Ratings: Health: 1; Flammability: 1; Reactivity: 1

Route of Exposure: Skin, Inhalation

Potential Health Effects

May cause cancer. Harmful by inhalation, in contact with skin and if swallowed. Limited evidence of a carcinogenic effect. May cause sensitization by inhalation and skin contact. Possible teratogen.

Neurological hazard.

Target Organs: Respiratory system

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Description: Nickel(II) 1-dimethylamino-2-methyl-2-butoxide
Molecular Formula: C₁₄H₃₂N₂O₂Ni

SECTION 4. FIRST AID MEASURES

Eyes: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Skin: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media:

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

Products of Combustion: CO, CO₂, NO_x, Nickel/Nickel oxide

Special Protective Equipment for Fire-Fighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): Emits toxic fumes under fire conditions.

Flash Point: Not available

Flammable Limits: Not available

Auto-Ignition Temperature: Not available.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill: Evacuate area.

Personal Precautions: Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

SECTION 7. HANDLING AND STORAGE

Handling

Do not breathe dust. Avoid all contact. Avoid prolonged or repeated exposure.

Storage

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

Special Requirements

Hygroscopic.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Safety shower and eye bath. Use only in a chemical fume hood.

Personal Protective Equipment

Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

General Hygiene Measures

Wash thoroughly after handling. Discard contaminated clothing and shoes.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark green liquid

Molecular Weight: 319.13 g/mol

Melting Point: Not available

Boiling Point: 148? (298.4?) at 3.32 torr

Flash Point: Not available

Volatility: Not available

Liquid Density: Not available

Vapor Pressure: 0.1 torr at 80?

Solubility in water: React

Vapor Density: Not available

n-octanol/water Partition Coefficient: Not available

pH (1% soln/water): N/A

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable at room temperature in closed containers under normal storage and handling conditions. Conditions to Avoid: Moisture

Materials to Avoid: Strong oxidizing agents. Hazardous Decomposition Products: CO, CO₂, NO_x, Nickel/Nickel oxides

Hazardous Polymerization: Has not been reported.

SECTION 11. TOXICOLOGICAL INFORMATION

Route of Exposure

Skin Contact: Irritation

Eye Contact: Irritation

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

Signs and Symptoms of Exposure

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Bioaccumulation: No information available.
Biodegradation: No information available.
Environmental Stability: No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14. TRANSPORT INFORMATION

UN No: 3398
CLASS: 4.3
Packing Group: Packing Group II
Proper Shipping Name: Organometallic substance, liquid, water-reactive
(Nickel(II) 1-dimethylamino-2-methyl-2-butoxide)

SECTION 15. REGULATORY INFORMATION

OSHA Hazards
Toxic
Product related hazard information:
Hazard symbols:
T Toxic
Risk phrases:
R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed
R 42/43 May cause sensitization by inhalation and skin contact.
R 45 May cause cancer.
Safety phrases:
S 24 Avoid contact with the skin.
S 36/37 Wear suitable protective clothing and gloves.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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.
