



Nickel Foam Material Safety Data Sheet (MSDS)

SECTION 1: Identification

Product Name: Nickel Foam

Chemical Name: Nickel

CAS Number: 7440-02-0

Manufacturer/Supplier: VRITRA TECHNOLOGIES

SECTION 2: Hazards Identification

- Classification of the Substance:

- Physical hazards: Not classified
- Health hazards: Skin sensitization Category 1, Carcinogenicity Category 2, Specific target organ toxicity - repeated exposure Category 1
- Environmental hazards: Not classified

- GHS Label Elements:

- Signal Word: Danger
- Hazard Statements: H317 - May cause an allergic skin reaction; H351 - Suspected of causing cancer; H372 - Causes damage to organs through prolonged or repeated exposure
- Precautionary Statements: P260, P264, P280, P285, P302+P352, P333+P313, P362, P405, P501

- Potential Health Effects:

- Inhalation: May cause respiratory irritation and sensitization.
- Skin Contact: May cause allergic skin reactions and dermatitis.
- Eye Contact: May cause eye irritation.
- Ingestion: Ingestion is not considered a typical route of exposure.

SECTION 3: Composition/Information on Ingredients

- Chemical Identity:

- Nickel content: 99.9%
- Other components: See purity report

SECTION 4: First Aid Measures

- Inhalation:

- Move to fresh air.
- If breathing difficulties persist, seek medical attention.

- Skin Contact:

- Remove contaminated clothing.
- Wash affected area with soap and water.
- Seek medical advice if irritation occurs.

- Eye Contact:

- Flush eyes with water for several minutes.

- Seek immediate medical attention.

- Ingestion:

- Rinse mouth with water.
- Do not induce vomiting.
- Seek medical attention.

SECTION 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Use appropriate media for surrounding fire.
- Special Firefighting Procedures: Wear self-contained breathing apparatus and full protective gear.
- Hazardous Combustion Products: May emit toxic fumes and gases (e.g., nickel oxide).

SECTION 6: Accidental Release Measures

- Personal Precautions: Use appropriate personal protective equipment (PPE).
- Environmental Precautions: Prevent entry into water sources or soil.
- Cleanup Procedures: Use appropriate methods for containment, cleanup, and disposal.

SECTION 7: Handling and Storage

- Handling: Avoid inhalation, skin, and eye contact. Use in a well-ventilated area.
- Storage: Store in a cool, dry place away from incompatible materials.
- Incompatible Materials: Strong acids, oxidizing agents.

SECTION 8: Exposure Controls/Personal Protection

- Engineering Controls: Use local exhaust ventilation if necessary to maintain airborne concentrations below exposure limits.
- Personal Protective Equipment (PPE): Wear appropriate gloves, safety goggles, and respiratory protection if needed.

SECTION 9: Physical and Chemical Properties

- Appearance: Silver-gray metallic solid
- Odor: Odorless
- Melting Point: 1,455°C
- Boiling Point: 2732°C
- Solubility in Water: Insoluble
- pH: Not applicable
- Vapor Pressure: Negligible
- Flash Point: Not applicable

SECTION 10: Stability and Reactivity

- Stability: Stable under normal conditions.