

Safety Data Sheet

Section 1: Identification

- **Product Name:** Low-Fuming Nickel
- **Synonyms:** Nickel Brazing Alloy
- **Recommended Use:** Filler metal for brazing and welding applications
- **Manufacturer:** Inweld Corporation
- **Address:** 3962 Portland St, Coplay, PA 18037, UNITED STATES
- **Phone Number:** (800) 346-5368
- **Emergency Phone Number (CHEMTREC):** (800) 424-9300
- **Date Prepared:** July 1, 2025
- **Revision Number:** 1.0

Section 2: Hazard(s) Identification

Classification of the Substance or Mixture

- Carcinogenicity – Category 1A
- Specific Target Organ Toxicity, Repeated Exposure – Category 1 (Respiratory tract)
- Sensitization, Respiratory – Category 1
- Sensitization, Skin – Category 1

Signal Word: Danger

Hazard Statements:

- H350: *May cause cancer*
- H372: *Causes damage to organs (lungs) through prolonged or repeated exposure*
- H334: *May cause allergy or asthma symptoms or breathing difficulties if inhaled*
- H317: *May cause an allergic skin reaction*

Pictograms:



Precautionary Statements:

- **P201:** Obtain special instructions before use
- **P260:** Do not breathe dust/fume/gas/mist/vapors/spray
- **P280:** Wear protective gloves/protective clothing/eye protection/face protection
- **P285:** In case of inadequate ventilation wear respiratory protection
- **P302+P352:** IF ON SKIN: Wash with plenty of soap and water
- **P304+P340:** IF INHALED: Remove person to fresh air and keep comfortable for breathing
- **P308+P313:** IF exposed or concerned: Get medical advice/attention

Section 3: Composition/Information on Ingredients

Chemical Name	CAS Number	Weight %
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Nickel	7440-02-0	90–100%
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Note: All concentrations are in percent by weight unless otherwise stated.

Section 4: First-Aid Measures

Inhalation:

Remove to fresh air. Seek medical attention if symptoms persist. If breathing is difficult, give oxygen.

Skin Contact:

Wash thoroughly with soap and water. Seek medical attention if rash or irritation develops.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Ingestion:

Unlikely route of exposure. If ingested, do not induce vomiting. Seek medical attention.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use extinguishing media suitable for surrounding fire (e.g., water, dry chemical, foam, CO₂).
- **Specific Hazards:** Metal fumes may be released during welding or brazing.
- **Protective Equipment for Firefighters:** Wear self-contained breathing apparatus and full protective gear.

Section 6: Accidental Release Measures

- Avoid creating dust. Wear appropriate personal protective equipment (PPE).
- Vacuum or sweep up material. Avoid dry sweeping that can cause dust.
- Dispose of in accordance with local, state, and federal regulations.

Section 7: Handling and Storage

Handling:

- Use in well-ventilated area.
- Avoid breathing dust or fumes.
- Wear suitable protective equipment.

Storage:

- Store in a dry place.
- Keep containers tightly closed when not in use.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

Substance OSHA PEL ACGIH TLV

Nickel 1 mg/m³ (TWA) 1.5 mg/m³ (inhalable)

Engineering Controls:

- Provide adequate general and local exhaust ventilation.

Personal Protective Equipment (PPE):

- **Eye/Face Protection:** Safety glasses or goggles
- **Skin Protection:** Protective gloves
- **Respiratory Protection:** Use NIOSH-approved respirators if ventilation is inadequate
- **Hygiene Measures:** Wash hands after handling

Section 9: Physical and Chemical Properties

Property	Value
Appearance	Silver/gray metal
Odor	Odorless
Melting Point	~1453°C (2647°F)
Boiling Point	~2730°C (4946°F)
Density	~8.9 g/cm ³
Solubility (Water)	Insoluble
Flash Point	Not applicable
Flammability	Non-flammable

Section 10: Stability and Reactivity

- **Reactivity:** Not reactive under normal conditions.
- **Chemical Stability:** Stable under normal storage and handling conditions.
- **Incompatible Materials:** Strong acids, oxidizers
- **Hazardous Decomposition Products:** Nickel oxide fumes during welding

Section 11: Toxicological Information

Likely Routes of Exposure:

- Inhalation, skin contact

Symptoms:

- Respiratory irritation, skin sensitization, allergic reactions

Carcinogenicity:

- Nickel is classified as a **Group 1 carcinogen** by IARC

Section 12: Ecological Information

- **Environmental Fate:** Nickel is persistent in soil and water.
- **Ecotoxicity:** Harmful to aquatic life with long-lasting effects.
- **Bioaccumulative Potential:** Moderate potential

Section 13: Disposal Considerations

- Dispose in accordance with federal, state, and local regulations.
- Do not dispose into the environment.

Section 14: Transport Information

- **DOT Classification:** Not regulated as hazardous for transport
- **UN Number:** Not applicable
- **Proper Shipping Name:** Not applicable

- **Hazard Class:** Not applicable

Section 15: Regulatory Information

- **OSHA:** Hazardous per 29 CFR 1910.1200
- **TSCA:** All ingredients listed
- **SARA 313:** Nickel is a listed toxic chemical
- **California Prop 65:** WARNING: This product contains Nickel, a chemical known to the State of California to cause cancer.

Section 16: Other Information

- **Date of Preparation:** July 1, 2025
- **Revision Note:** Initial release

DISCLAIMER: The information provided in this SDS is believed to be accurate and reliable. However, it is provided without warranty, express or implied. The user is responsible for determining the suitability of this product for a specific purpose and ensuring compliance with applicable laws and regulations.