

Safety Data Sheet

Section 1: Identification

Product Name: Nickel Silver

Synonyms: Nickel Copper Alloy, Nickel Silver Alloy

Recommended Use: Welding/Filler Metal for brazing and soldering

Restrictions on Use: For industrial use only

Manufacturer:

Inweld Corporation

3962 Portland St, Coplay, PA 18037, UNITED STATES

Manufacturer Phone Number: (800) 346-5368

Emergency Phone: (800) 424-9300

Section 2: Hazard(s) Identification

GHS Classification:

- Acute Toxicity, Inhalation – Category 4
- Skin Irritation – Category 2
- Eye Irritation – Category 2A
- Specific Target Organ Toxicity – Single Exposure (Respiratory Tract Irritation) – Category 3
- Carcinogenicity – Category 1B (Nickel compounds)

Signal Word: Danger

Hazard Statements:

- H332: Harmful if inhaled.
- H315: Causes skin irritation.

- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.
- H350: May cause cancer (inhalation exposure to nickel compounds).

Precautionary Statements:

- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- 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.
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

GHS Pictograms:



Section 3: Composition/Information on Ingredients

Component	CAS Number	Approx. % (wt)	Notes
Nickel	7440-02-0	10 - 25%	Carcinogen
Copper	7440-50-8	50 - 65%	
Zinc	7440-66-6	10 - 20%	
Other Trace Metals	N/A	Balance	

Section 4: First-Aid Measures

Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, seek medical attention.

Skin Contact:

Wash with soap and water. Remove contaminated clothing. If irritation occurs, get medical advice.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, seek medical attention.

Ingestion:

Not a typical route of exposure. If swallowed, rinse mouth and seek medical attention.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Use dry chemical, CO₂, foam, or water spray.

Specific Hazards:

Metal powders/fumes can be flammable or explosive under certain conditions. Heating can generate toxic fumes (nickel oxides, copper oxides).

Protective Equipment:

Wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

Personal Precautions:

Avoid dust formation. Use appropriate personal protective equipment.

Environmental Precautions:

Prevent entry into waterways, sewers, or soil.

Methods for Cleanup:

Sweep or vacuum material into suitable container for disposal.

Section 7: Handling and Storage

Handling:

Avoid breathing dust or fumes. Use adequate ventilation. Avoid skin and eye contact.

Storage:

Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

- Nickel (metal and compounds): OSHA PEL 1 mg/m³ (as Ni)
- Copper: OSHA PEL 1 mg/m³ (as Cu)
- Zinc: OSHA PEL 5 mg/m³ (as ZnO fume)

Engineering Controls:

Use local exhaust ventilation to control dust/fume exposure.

Personal Protective Equipment:

- Respiratory Protection: NIOSH-approved respirator if ventilation is inadequate.
- Skin Protection: Gloves and protective clothing.
- Eye Protection: Safety goggles or face shield.

Section 9: Physical and Chemical Properties

Property	Value
Appearance	Solid wire/rod, silver-gray metallic
Odor	Odorless
Melting Point	Approximately 900-1000 °C
Boiling Point	Not applicable
Vapor Pressure	Negligible
Solubility	Insoluble in water

Property	Value
Density	~8.5 g/cm ³

Section 10: Stability and Reactivity

Reactivity:

Stable under normal conditions.

Chemical Stability:

Stable at ambient temperature.

Conditions to Avoid:

Avoid overheating and dust formation.

Incompatible Materials:

Strong acids and bases.

Hazardous Decomposition Products:

Metal fumes including nickel and copper oxides.

Section 11: Toxicological Information

- **Acute Toxicity:** Inhalation of dust or fumes may cause respiratory irritation.
- **Skin and Eye Contact:** Causes irritation.
- **Carcinogenicity:** Nickel compounds are classified as carcinogenic to humans (IARC Group 1).
- **Chronic Exposure:** Prolonged inhalation may cause lung fibrosis and sensitization.

Section 12: Ecological Information

- Toxic to aquatic life with long-lasting effects.
- Avoid release to the environment.

Section 13: Disposal Considerations

Dispose of in accordance with local, state, and federal regulations. Do not dispose of in sewer or waterways.

Section 14: Transport Information

Not regulated as dangerous goods under DOT, IATA, or IMDG for shipment.

Section 15: Regulatory Information

- OSHA Hazard Communication Standard (29 CFR 1910.1200)
- EPA: Components may be subject to reporting under CERCLA and SARA Title III.

Section 16: Other Information

Prepared by: Inweld Corporation

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Disclaimer: The information contained herein is based on data believed to be reliable and correct at the time of preparation. However, no warranty or guarantee is made to its accuracy, completeness, or suitability.