Inweld
Welding Alloys and Supplies

Safety Data Sheet

Section 1: Identification

Product Name: Low-Fuming Brass Nickel

Product Type: Filler Metal

Manufacturer: Inweld Corporation

Address: 3962 Portland St, Coplay, PA 18037, UNITED STATES

Manufacturer Phone Number: (800) 346-5368

Emergency Phone: (800) 424-9300 (CHEMTREC)

Recommended Use: Welding filler metal

Restrictions on Use: For industrial use only

Section 2: Hazard(s) Identification

Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200):

- Carcinogenicity: Category 1B
- Specific Target Organ Toxicity – Repeated Exposure (STOT RE): Category 1
- Skin Sensitization: Category 1
- Respiratory Sensitization: Category 1
- Acute Toxicity (Inhalation - Dust/Mist): Category 4

Signal Word: DANGER

Hazard Statements:

- May cause cancer.
- Causes damage to organs through prolonged or repeated exposure.
- May cause allergic skin reaction.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.

- Harmful if inhaled.

Precautionary Statements:

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If exposed or concerned: Get medical advice/attention.
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
- If on skin: Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical advice/attention.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national regulations.

GHS Hazard Pictograms:

Section 3: Composition/Information on Ingredients

Chemical Name	CAS Number	Approximate % by Weight	Notes
Copper	7440-50-8	50-65	Base metal
Zinc	7440-66-6	25-40	
Nickel	7440-02-0	1-5	Known sensitizer
Other alloying elements	N/A	<5	

Section 4: First-Aid Measures

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, seek medical attention.

Skin Contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing. If irritation or rash develops, get medical advice.

Eye Contact:

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

Ingestion:

Rinse mouth. Do NOT induce vomiting. Get medical attention if symptoms occur.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or foam.

Unsuitable Extinguishing Media:

None known.

Specific Hazards:

Fumes may be toxic and irritant when heated or during welding.

Protective Equipment:

Wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

Personal Precautions:

Avoid dust formation. Use personal protective equipment.

Environmental Precautions:

Prevent from entering drains, sewers, or waterways.

Methods for Cleanup:

Sweep up and collect in suitable containers for disposal.

Section 7: Handling and Storage

Handling:

Avoid inhalation of dust/fume. Use only with adequate ventilation. Avoid contact with skin and eyes.

Storage:

Store in a dry, well-ventilated area. Keep container tightly closed.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

- Copper (fume): OSHA PEL 1 mg/m^3
- Zinc oxide (fume): OSHA PEL 5 mg/m^3
- Nickel: OSHA PEL 1 mg/m^3 (metal), 0.015 mg/m^3 (Ni soluble compounds)

Engineering Controls:

Use local exhaust ventilation to keep airborne concentrations below exposure limits.

Personal Protective Equipment:

- Respiratory Protection: NIOSH-approved respirator if ventilation is insufficient.
- Gloves: Chemical-resistant gloves.
- Eye Protection: Safety glasses with side shields or goggles.
- Skin Protection: Protective clothing.

Section 9: Physical and Chemical Properties

- Appearance: Solid wire or rod
- Color: Yellowish to silver (brass with nickel)
- Odor: Metallic, slight sulfur-like when heated
- Melting Point: ~900-1000 °F (480-540 °C)
- Boiling Point: Not applicable

- Vapor Pressure: Negligible
- Solubility: Insoluble in water

Section 10: Stability and Reactivity

Reactivity: Stable under normal conditions.

Chemical Stability: Stable.

Possibility of Hazardous Reactions: None under normal use.

Conditions to Avoid: Excessive heat, open flames.

Incompatible Materials: Strong acids and bases.

Hazardous Decomposition Products: Metal fumes, oxides of copper, zinc, nickel.

Section 11: Toxicological Information

Acute Toxicity: Harmful if inhaled; dust and fumes may cause respiratory irritation.

Skin Corrosion/Irritation: May cause skin irritation and sensitization.

Serious Eye Damage/Irritation: May cause eye irritation.

Respiratory or Skin Sensitization: Nickel is a known sensitizer.

Carcinogenicity: Nickel compounds are classified as carcinogenic to humans.

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to lungs and respiratory system.

Section 12: Ecological Information

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

Section 13: Disposal Considerations

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

Section 14: Transport Information

Not regulated under DOT for ground transport.

Section 15: Regulatory Information

- Contains nickel, a known carcinogen and sensitizer under OSHA and other regulatory agencies.

Section 16: Other Information

Date of Preparation: June 5, 2025

Prepared by: Inweld Corporation