

Safety Data Sheet

Section 1: Identification

- **Product Name:** Aluminum Bronze A-2
- **Manufacturer:** Inweld Corporation
- **Address:** 3962 Portland St, Coplay, PA 18037, UNITED STATES
- **Inweld Phone Number:** (800) 346-5368
- **Emergency Phone Number:** (800) 424-9300 (CHEMTREC)

Section 2: Hazard Identification

Classification of the substance or mixture:

- **Health Hazard:** May cause respiratory irritation.
- **Environmental Hazard:** Toxic to aquatic life.

GHS Label Elements:

- **Signal Word:** Danger
- **Pictograms:**



Hazard Statements:

- **H315:** Causes skin irritation.
- **H319:** Causes serious eye irritation.
- **H335:** May cause respiratory irritation.
- **H411:** Toxic to aquatic life with long-lasting effects.

Precautionary Statements:

- **P280:** Wear protective gloves, protective clothing, eye protection, and face protection.

- **P302+P352:** IF ON SKIN: Wash with plenty of soap and water.
- **P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- **P304+P340:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- **P273:** Avoid release to the environment.

Section 3: Composition/Information on Ingredients

- **Substance:** Aluminum Bronze A-2
- **CAS Number:** Mixture of metals
 - **Aluminum (CAS 7429-90-5):** 85-92%
 - **Copper (CAS 7440-50-8):** 5-8%
 - **Iron (CAS 7439-89-6):** 2-4%
 - **Nickel (CAS 7440-02-0):** 1-2%
 - **Others:** Small trace amounts of other elements.

Section 4: First-Aid Measures

General Advice: Seek medical attention if symptoms persist or in case of serious exposure.

- **Inhalation:** Remove to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash affected area with soap and water. Remove contaminated clothing and wash before reuse.
- **Eye Contact:** Rinse with water for at least 15 minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water and seek immediate medical attention if symptoms develop.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use dry chemical, CO₂, or water spray for large fires. Use water fog to cool containers and prevent spreading.
- **Special Firefighting Procedures:** Wear self-contained breathing apparatus and protective clothing.
- **Unusual Fire and Explosion Hazards:** Material is not flammable, but metal dust or fumes could present an explosion hazard in certain conditions.

Section 6: Accidental Release Measures

- **Personal Precautions:** Wear appropriate personal protective equipment (PPE) including gloves and safety goggles.
- **Environmental Precautions:** Prevent spills from entering waterways. Report spills to local authorities.
- **Cleanup Methods:** Sweep or vacuum up material carefully. Place in appropriate container for disposal.

Section 7: Handling and Storage

- **Handling:** Avoid dust formation. Use local exhaust ventilation and wear appropriate PPE. Keep away from incompatible materials.
- **Storage:** Store in a cool, dry place, away from heat and direct sunlight. Store in tightly sealed containers.

Section 8: Exposure Controls/Personal Protection

- **Occupational Exposure Limits:**
 - Aluminum (OSHA PEL): 15 mg/m³ (total dust)
 - Copper (OSHA PEL): 1 mg/m³ (fume)
 - Nickel (OSHA PEL): 1 mg/m³ (fume)
- **Engineering Controls:** Provide adequate ventilation to reduce exposure to dust and fumes.
- **Personal Protective Equipment (PPE):**

- **Eye/Face Protection:** Safety goggles or face shield.
- **Skin Protection:** Wear protective gloves and long-sleeve clothing.
- **Respiratory Protection:** Use a respirator if exposure limits are exceeded or if irritation occurs.

Section 9: Physical and Chemical Properties

- **Appearance:** Metallic bronze, solid form.
- **Odor:** No odor.
- **Melting Point:** 950-1050°C (1742-1922°F).
- **Boiling Point:** Not applicable (solid metal).
- **Density:** ~7.4 g/cm³.
- **Solubility:** Insoluble in water.
- **Flash Point:** Not applicable.

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions of use and storage.
- **Conditions to Avoid:** Avoid exposure to high temperatures, open flames, and sources of sparks.
- **Incompatible Materials:** Strong oxidizing agents and acids.
- **Hazardous Decomposition Products:** Metal oxides may be produced at high temperatures.

Section 11: Toxicological Information

- **Acute Toxicity:** Not classified as acutely toxic.
- **Chronic Toxicity:** Prolonged exposure may cause respiratory irritation or skin sensitization.
- **Skin Contact:** May cause skin irritation.

- **Eye Contact:** Causes serious eye irritation.
- **Inhalation:** May cause respiratory irritation.

Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic life with long-lasting effects.
- **Persistence and Degradability:** Not readily biodegradable.
- **Bioaccumulative Potential:** Not expected to bioaccumulate significantly.
- **Other Adverse Effects:** May cause harm to aquatic life if released in large quantities.

Section 13: Disposal Considerations

- **Disposal Methods:** Dispose of in accordance with local, state, and federal regulations. Recycle or dispose of as non-hazardous waste if possible.

Section 14: Transport Information

- **UN Number:** Not regulated.
- **Proper Shipping Name:** Not applicable.
- **Transport Hazard Class:** Not applicable.
- **Packing Group:** Not applicable.

Section 15: Regulatory Information

- **OSHA Hazard Communication Standard (HCS):** This product is classified as hazardous.
- **TSCA (Toxic Substances Control Act):** All ingredients are listed on the TSCA inventory.
- **CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):** No reportable quantities for this product.

Section 16: Other Information

- **Preparation Date:** June 2025
- **Revision Date:** June 2025
- **Disclaimer:** The information provided in this SDS is based on the best available data at the time of preparation. Inweld Corporation does not assume responsibility for any loss, injury, or damage caused by the use of this product.