

## Safety Data Sheet

### SECTION 1: Identification

**Product Identifier:** Flux Coated Low-Fuming Bronze

**Recommended Use:** Brazing and welding filler metal

**Restrictions on Use:** Use only as directed

**Manufacturer:**

Inweld Corporation

3962 Portland St

Coplay, PA 18037

United States

**Phone Number (General Information):** (800) 346-5368

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

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### SECTION 2: Hazard(s) Identification

**Classification:**

- Acute toxicity, inhalation – Category 4
- Skin sensitization – Category 1
- Carcinogenicity – Category 1A
- Specific target organ toxicity, repeated exposure – Category 2
- Eye irritation – Category 2A

**Signal Word:** DANGER

**GHS Pictograms:**



**Hazard Statements:**

- H302: Harmful if swallowed
- H332: Harmful if inhaled
- H317: May cause an allergic skin reaction

- H350: May cause cancer (inhalation)
- H373: May cause damage to organs through prolonged or repeated exposure (lungs, respiratory system)
- H319: Causes serious eye irritation

**Precautionary Statements:**

- P201: Obtain special instructions before use
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray
- P280: Wear protective gloves/protective clothing/eye protection/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
- P308+P313: IF exposed or concerned: Get medical advice/attention

**Other Hazards:**

- Fumes from welding may contain hazardous substances such as copper, zinc oxide, and fluorides.
- Overexposure may cause metal fume fever.

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**SECTION 3: Composition/Information on Ingredients**

<b>Component</b>	<b>CAS Number</b>	<b>Weight %</b>
Copper	7440-50-8	55–60%
Zinc	7440-66-6	35–40%
Flux (contains fluorides) Mixture		1–5%
Tin	7440-31-5	<2%
Other additives	Proprietary	<1%

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**SECTION 4: First-Aid Measures**

**Inhalation:** Move to fresh air. If breathing difficulty persists, seek medical attention.

**Skin Contact:** Wash with soap and water. Remove contaminated clothing. Seek medical attention for irritation or rash.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. Seek medical attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical attention.

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## SECTION 5: Fire-Fighting Measures

**Suitable Extinguishing Media:** Dry chemical, CO<sub>2</sub>, foam, or water spray

**Specific Hazards:** Fumes may contain toxic metals.

**Protective Equipment for Firefighters:** Wear self-contained breathing apparatus and full protective gear.

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## SECTION 6: Accidental Release Measures

**Personal Precautions:** Avoid inhalation of dust and fumes. Use PPE.

**Environmental Precautions:** Avoid release into environment.

**Methods for Cleanup:** Collect material and dispose of in accordance with local regulations.

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## SECTION 7: Handling and Storage

**Handling:** Use with adequate ventilation. Do not breathe dust/fume. Wear appropriate PPE.

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

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## SECTION 8: Exposure Controls/Personal Protection

### Exposure Limits:

Substance	OSHA PEL (mg/m <sup>3</sup> )	ACGIH TLV (mg/m <sup>3</sup> )
Copper (fume)	0.1 (fume)	0.2 (fume)
Zinc Oxide	5.0 (fume)	2.0 (fume)
Fluorides	2.5	2.5

**Engineering Controls:** Use local exhaust ventilation during welding or brazing.

**Personal Protective Equipment (PPE):**

- Eye/Face Protection: Safety glasses or face shield
  - Skin Protection: Welding gloves, protective clothing
  - Respiratory Protection: Use approved respirators if exposure limits are exceeded
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## SECTION 9: Physical and Chemical Properties

- Appearance: Bronze-coated rods
  - Odor: No significant odor
  - Melting Point: ~1600°F (871°C)
  - Solubility: Insoluble in water
  - Flash Point: Not applicable
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## SECTION 10: Stability and Reactivity

**Reactivity:** Stable under normal conditions

**Incompatible Materials:** Strong oxidizers, acids

**Decomposition Products:** Metal oxides, fluoride compounds, fumes

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## SECTION 11: Toxicological Information

**Likely Routes of Exposure:** Inhalation, skin and eye contact

**Symptoms:** Irritation, metal fume fever, allergic reactions

**Carcinogenicity:** Copper and zinc are not classifiable. Flux may contain fluorides; fume inhalation may pose long-term risks.

**Chronic Effects:** Prolonged inhalation of fumes may cause respiratory damage

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## SECTION 12: Ecological Information

**Ecotoxicity:** Harmful to aquatic life in large quantities

**Persistence and Degradability:** Not readily biodegradable

**Bioaccumulative Potential:** Low

**Mobility in Soil:** Minimal

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## SECTION 13: Disposal Considerations

**Disposal Methods:** Dispose of in accordance with local, state, and federal regulations.

Avoid release to environment.

**Waste Code:** Refer to applicable regulations

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## SECTION 14: Transport Information

**DOT Classification:** Not regulated as hazardous for transport

**UN Number:** Not applicable

**Hazard Class:** Not applicable

**Packing Group:** Not applicable

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## SECTION 15: Regulatory Information

**TSCA:** All components are listed or exempt

**SARA Title III:**

- Section 302: Not listed
- Section 313: Contains Copper and Zinc compounds

**California Prop 65:** May contain substances known to cause cancer or reproductive harm

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## SECTION 16: Other Information

**Prepared By:** Inweld Corporation

**SDS Revision Date:** 7/3/2025

**Disclaimer:** This SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained herein has been compiled from sources considered reliable and accurate to the best of our knowledge.