

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

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.

Section 3: Composition/Information on Ingredients

Component	CAS Number	Weight %
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%

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.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Dry chemical, CO₂, foam, or water spray

Specific Hazards: Fumes may contain toxic metals.

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

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.

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.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

Substance	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)
Copper (fume)	0.1 (fume)	0.2 (fume)
Zinc Oxide	5.0 (fume)	2.0 (fume)

Substance **OSHA PEL (mg/m³)** **ACGIH TLV (mg/m³)**

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

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

Section 10: Stability and Reactivity

Reactivity: Stable under normal conditions

Incompatible Materials: Strong oxidizers, acids

Decomposition Products: Metal oxides, fluoride compounds, fumes

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

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

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

Section 14: Transport Information

DOT Classification: Not regulated as hazardous for transport

UN Number: Not applicable

Hazard Class: Not applicable

Packing Group: Not applicable

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

Section 16: Other Information

Prepared By: Inweld Corporation

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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.

