

Safety Data Sheet

Section 1: Identification

Product Identifier:

Broco Cutting Rods – 1418UW, 3818UW, 3836UW

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

Recommended Use:

Oxy-arc cutting and gouging of metals.

Restrictions on Use:

For industrial use only. Not for use in consumer applications.

Section 2: Hazard(s) Identification

Classification:

- Carcinogenicity – Category 1A
- Specific Target Organ Toxicity – Repeated Exposure – Category 2
- Acute Toxicity – Inhalation – Category 4
- Skin Irritation – Category 2
- Eye Irritation – Category 2A

Signal Word:

DANGER

Hazard Statements:

- H302: Harmful if swallowed

- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H332: Harmful if inhaled
- H335: May cause respiratory irritation
- H351: Suspected of causing cancer
- H373: May cause damage to organs through prolonged or repeated exposure

Precautionary Statements:

- P201: Obtain special instructions before use
- P202: Do not handle until all safety precautions have been read and understood
- P260: Do not breathe 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
- P308 + P313: IF exposed or concerned: Get medical advice/attention

GHS Pictograms:



Section 3: Composition/Information on Ingredients

Chemical Name	CAS Number	% by Weight
Iron	7439-89-6	50–90%
Manganese	7439-96-5	1–10%
Copper	7440-50-8	1–10%
Zinc (as oxide fumes)	1314-13-2	1–5%
Silica (Crystalline)	14808-60-7	<1%

Section 4: First-Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.

Eye Contact: Flush with water for at least 15 minutes. Remove contact lenses if easy to do. Seek medical attention if irritation continues.

Ingestion: Do not induce vomiting. Rinse mouth with water. Seek immediate medical attention.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Dry chemical, CO₂, water spray, foam.

Specific Hazards:

Metal dusts can be flammable. May produce hazardous fumes under fire conditions.

Protective Equipment:

Self-contained breathing apparatus and full protective gear.

Section 6: Accidental Release Measures

Personal Precautions:

Evacuate area. Avoid breathing dust or fumes. Use personal protective equipment.

Spill Response:

Sweep or vacuum up material and place in appropriate container for disposal. Avoid generating dust.

Section 7: Handling and Storage

Handling:

Use only in well-ventilated areas. Avoid contact with skin, eyes, and clothing. Do not inhale fumes or dust.

Storage:

Store in cool, dry, and well-ventilated area away from incompatible materials.

Section 8: Exposure Controls/Personal Protection

Substance	OSHA PEL	ACGIH TLV
Iron Oxide (as fume)	10 mg/m ³	5 mg/m ³
Manganese	5 mg/m ³ (Ceiling)	0.02 mg/m ³ (respirable)
Copper (dust/fume)	1 mg/m ³	0.2 mg/m ³ (fume)
Zinc Oxide Fume	5 mg/m ³	2 mg/m ³ (STEL 10 mg/m ³)

Engineering Controls:

Local exhaust ventilation is required during use.

Personal Protection:

- Respiratory: Use NIOSH-approved respirator during cutting operations
- Eye: Safety goggles or face shield
- Hands: Protective gloves
- Skin: Wear flame-resistant clothing

Section 9: Physical and Chemical Properties

- **Appearance:** Solid metal rods, copper-coated
- **Color:** Copper/bronze
- **Odor:** Odorless
- **Melting Point:** >1000°C
- **Boiling Point:** Not applicable
- **Flash Point:** Not applicable
- **Solubility in Water:** Insoluble

- **Flammability:** Non-flammable as sold; dust or fumes may be hazardous

Section 10: Stability and Reactivity

Stability: Stable under normal conditions.

Hazardous Reactions: None known.

Incompatible Materials: Strong acids, strong oxidizers.

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

Section 11: Toxicological Information

- **Likely Routes of Exposure:** Inhalation, skin, and eye contact
- **Acute Effects:** Irritation to respiratory system, eyes, and skin
- **Chronic Effects:** Prolonged exposure to welding fumes may cause lung damage and increase cancer risk
- **Carcinogenicity:** Crystalline silica (trace) – IARC Group 1 (Carcinogenic to humans)

Section 12: Ecological Information

- **Persistence/Degradability:** Not readily biodegradable
- **Bioaccumulation:** Potential for bioaccumulation in aquatic organisms
- **Aquatic Toxicity:** Harmful to aquatic life in large quantities

Section 13: Disposal Considerations

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

Section 14: Transport Information

- **UN Number:** Not regulated
- **DOT Classification:** Not regulated as a hazardous material

- **Transport Hazard Class:** None
- **Packaging Requirements:** Keep dry and secure

Section 15: Regulatory Information

TSCA Inventory: All components are listed or exempt.

SARA Title III:

- Section 302: No components listed
- Section 311/312: Immediate, Delayed Health Hazard
- Section 313: Manganese, Copper, Zinc – reportable

California Prop 65: This product contains substances known to the State of California to cause cancer and/or reproductive harm (Crystalline silica).

Section 16: Other Information

SDS Revision Date: July 1, 2025

Prepared By: Inweld Corporation – Safety Department