

## Safety Data Sheet

### Section 1: Identification

**Product Identifier:**

Cut Arc, Chamfer Arc, Metal Mover

**Recommended Use:**

Filler metal used for thermal cutting, chamfering, and metal removal operations.

**Manufacturer:**

**Inweld Corporation**

3962 Portland St, Coplay, PA 18037

UNITED STATES

**Phone Number:**

(800) 346-5368

**Emergency Phone (24-hour CHEMTREC):**

(800) 424-9300

### Section 2: Hazard(s) Identification

**Classification (per 29 CFR 1910.1200):**

- Carcinogenicity – Category 1A
- Specific target organ toxicity – repeated exposure (lungs) – 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
- H350: May cause cancer (inhalation)
- H373: May cause damage to organs (lungs) through prolonged or repeated exposure

#### Precautionary Statements:

- P201: Obtain special instructions before use
- P260: Do not breathe dust/fume/gas/mist/vapors/spray
- P264: Wash thoroughly after handling
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P308+P313: IF exposed or concerned: Get medical advice/attention
- P405: Store locked up
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations

#### GHS Pictograms:



### Section 3: Composition/Information on Ingredients

#### Chemical Name CAS Number % by Weight

|           |           |        |
|-----------|-----------|--------|
| Iron      | 7439-89-6 | 60–85% |
| Manganese | 7439-96-5 | 10–20% |
| Silicon   | 7440-21-3 | 1–5%   |

**Chemical Name CAS Number % by Weight**

Chromium 7440-47-3 <2%

Nickel 7440-02-0 <2%

**Note:** Composition varies slightly depending on the product variant. Some elements may be present in trace quantities.

#### **Section 4: First-Aid Measures**

**Inhalation:**

Remove to fresh air. If breathing is difficult, administer oxygen. Get medical attention.

**Skin Contact:**

Wash skin thoroughly with soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.

**Eye Contact:**

Flush eyes with water for at least 15 minutes. Seek immediate medical attention.

**Ingestion:**

Do not induce vomiting. Rinse mouth with water. Seek medical advice if large quantities are swallowed.

#### **Section 5: Fire-Fighting Measures**

**Extinguishing Media:**

Use appropriate media for surrounding fire. Filler metal is non-flammable but may emit hazardous fumes when heated.

**Hazardous Combustion Products:**

Metal oxides, toxic fumes of manganese, chromium, and nickel.

**Firefighter Protection:**

Wear full protective gear and self-contained breathing apparatus.

#### **Section 6: Accidental Release Measures**

**Personal Precautions:**

Avoid inhalation of dust or fumes. Use appropriate PPE.

**Environmental Precautions:**

Prevent further leakage or spillage. Do not allow product to enter waterways or soil.

**Cleanup Methods:**

Sweep or vacuum without creating dust. Dispose of waste in accordance with regulations.

## Section 7: Handling and Storage

**Handling:**

Use only in well-ventilated areas. Avoid contact with eyes and skin. Avoid breathing dust or fumes.

**Storage:**

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep container tightly closed.

## Section 8: Exposure Controls/Personal Protection

| Substance         | OSHA PEL                     | ACGIH TLV                      |
|-------------------|------------------------------|--------------------------------|
| Iron oxide (fume) | 10 mg/m <sup>3</sup> (as Fe) | 5 mg/m <sup>3</sup> (as Fe)    |
| Manganese         | 5 mg/m <sup>3</sup> ceiling  | 0.02 mg/m <sup>3</sup> (resp.) |
| Chromium          | 1 mg/m <sup>3</sup>          | 0.5 mg/m <sup>3</sup>          |
| Nickel            | 1 mg/m <sup>3</sup>          | 1.5 mg/m <sup>3</sup>          |

**Engineering Controls:**

Use local exhaust or general ventilation to maintain exposure below permissible limits.

**PPE:**

- **Eyes:** Safety goggles
- **Skin:** Protective gloves and clothing
- **Respiratory:** NIOSH-approved respirators when fume/dust exceeds limits

## Section 9: Physical and Chemical Properties

- **Appearance:** Metallic rods or wire
- **Color:** Gray/silver
- **Odor:** Odorless
- **Melting Point:** ~1400–1500°C
- **Solubility in Water:** Insoluble
- **Density:** ~7.8 g/cm<sup>3</sup>

## Section 10: Stability and Reactivity

### **Stability:**

Stable under normal conditions.

### **Reactivity:**

Not reactive under normal use.

### **Incompatible Materials:**

Strong acids, strong oxidizers.

### **Hazardous Decomposition Products:**

Metal oxides, welding fumes.

## Section 11: Toxicological Information

### **Likely Routes of Exposure:**

Inhalation, skin contact, eye contact.

### **Acute Effects:**

Irritation of eyes, skin, respiratory tract.

### **Chronic Effects:**

Lung damage, metal fume fever, cancer (especially with prolonged exposure to hexavalent chromium and nickel).

### **Carcinogenicity:**

- Nickel and hexavalent chromium are listed by IARC and NTP as carcinogens.

## Section 12: Ecological Information

### Ecotoxicity:

Not expected to be highly toxic, but avoid environmental release.

### Persistence and Degradability:

Inorganic – does not degrade.

### Bioaccumulation Potential:

Low for most metals.

## Section 13: Disposal Considerations

Dispose of in accordance with local, state, and federal regulations. Do not dump into sewers or waterways.

## Section 14: Transport Information

### DOT Classification:

Not regulated as hazardous under DOT for ground transport.

## Section 15: Regulatory Information

- **TSCA Inventory:** All ingredients are listed.
- **SARA 313:** Manganese, chromium, and nickel are subject to reporting.

## Section 16: Other Information

### SDS Prepared by:

Inweld Corporation

**Date of Preparation:** July 1, 2025

### Disclaimer:

The information herein is believed to be accurate as of the preparation date. However, no warranty, express or implied, is given.

