Inweld
Welding Alloys & Supplies

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%
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^3 (as Fe)	5 mg/m^3 (as Fe)
Manganese	5 mg/m^3 ceiling	0.02 mg/m^3 (resp.)
Chromium	1 mg/m^3	0.5 mg/m^3
Nickel	1 mg/m^3	1.5 mg/m^3

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

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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^3

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.