

Safety Data Sheet

Section 1: Identification

Product Identifier: Fusion Flow 80

Recommended Use: Welding Filler Metal

Manufacturer: Inweld Corporation

Address: 3962 Portland St, Coplay, PA 18037, UNITED STATES

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

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

Date Prepared: 7/1/2025

Section 2: Hazard(s) Identification

Classification:

Hazard Class	Category
Acute Toxicity (Inhalation)	Category 4
Skin Irritation	Category 2
Eye Irritation	Category 2A
Carcinogenicity	Category 1A
Specific Target Organ Toxicity – Single Exposure (Respiratory system)	Category 3

Label Elements:

- **Signal Word: DANGER**

Hazard Statements:

- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.

- H350: May cause cancer.

Precautionary Statements:

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264: Wash skin thoroughly after handling.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P302+P352: IF ON SKIN: Wash with plenty of 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.
- 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

Ingredient	CAS Number	% by Weight
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Iron	7439-89-6	75–95%
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Manganese	7439-96-5	1–15%
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Silicon	7440-21-3	0.5–5%
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Chromium	7440-47-3	0.5–5%
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Ingredient CAS Number % by Weight

Nickel 7440-02-0 0.1–5%

Exact percentages are proprietary.

Section 4: First-Aid Measures

Inhalation: Move to fresh air. If symptoms persist, seek medical attention.

Skin Contact: Wash with soap and water. Seek medical attention if irritation occurs.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.

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

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide.

Special Hazards: Fumes may contain toxic metal oxides.

Protective Equipment: Firefighters should wear full protective gear and self-contained breathing apparatus (SCBA).

Section 6: Accidental Release Measures

Personal Precautions: Avoid breathing dust or fumes. Ensure adequate ventilation. Wear appropriate PPE.

Environmental Precautions: Prevent further leakage or spillage if safe to do so.

Cleanup Methods: Sweep up and place in suitable containers for disposal.

Section 7: Handling and Storage

Handling: Use with adequate ventilation. Avoid contact with skin and eyes.

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

Section 8: Exposure Controls/Personal Protection

Substance	OSHA PEL	ACGIH TLV
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Iron Oxide	10 mg/m ³	5 mg/m ³ (respirable fraction)
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Manganese	5 mg/m ³ ceiling	0.02 mg/m ³ (respirable)
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Nickel	1 mg/m ³	1.5 mg/m ³ (inhalable)
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Chromium	1 mg/m ³	0.5 mg/m ³
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Engineering Controls: Local exhaust ventilation recommended.

Personal Protective Equipment:

- **Eye/Face:** Safety glasses or goggles
- **Skin:** Protective gloves/clothing
- **Respiratory:** Use NIOSH-approved respirator if exposure limits are exceeded

Section 9: Physical and Chemical Properties

- Appearance: Solid wire or rod, metallic
- Odor: Odorless
- Odor Threshold: Not applicable
- pH: Not applicable
- Melting Point: ~1425–1540 °C (2600–2800 °F)
- Boiling Point: Not available
- Flash Point: Not applicable
- Flammability: Not flammable
- Vapor Pressure: Not applicable
- Relative Density: >7.0
- Solubility: Insoluble in water
- Partition Coefficient: Not applicable
- Auto-ignition Temp: Not applicable

- Decomposition Temp: Not determined
- Viscosity: Not applicable

Section 10: Stability and Reactivity

Stability: Stable under normal conditions.

Incompatible Materials: Strong acids, strong oxidizers.

Decomposition Products: Metal oxides, welding fumes.

Section 11: Toxicological Information

Routes of Exposure: Inhalation, skin, eye contact

Acute Effects: Irritation of skin, eyes, and respiratory tract

Chronic Effects: Prolonged exposure may lead to metal fume fever, lung damage, and cancer

Carcinogenicity:

- **Nickel and Chromium:** Listed by IARC as Group 1 (carcinogenic to humans)

Section 12: Ecological Information

Ecotoxicity: Not expected to pose significant environmental hazards in solid form.

Persistence/Degradability: Not readily biodegradable

Bioaccumulation Potential: May bioaccumulate (Nickel, Chromium)

Mobility in Soil: Low mobility

Section 13: Disposal Considerations

Dispose of contents/container in accordance with local/regional/national regulations.

Recycle when possible.

Section 14: Transport Information

UN Number: Not regulated

Transport Hazard Class: Not classified as hazardous

Packing Group: Not applicable

Marine Pollutant: No

Section 15: Regulatory Information

- **OSHA:** Hazardous as defined by Hazard Communication Standard (29 CFR 1910.1200)
- **TSCA:** All components listed
- **SARA 313:** Manganese, Nickel, Chromium – subject to reporting

Section 16: Other Information

Prepared By: Inweld Corporation

Preparation Date: 7/1/2025

Revision Number: 1

Disclaimer: The information provided is believed to be accurate, but is not guaranteed. Users are responsible for determining the suitability of this information for their particular purposes.