

Safety Data Sheet

Section 1: Identification

Product Identifier: HF933

Product Type: Filler Metal (Welding Rod/Wire)

Manufacturer: Inweld Corporation

Address: 3962 Portland St, Coplay, PA 18037, United States

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

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

Recommended Use: Welding

Restrictions on Use: Use only as directed. For industrial use only.

Section 2: Hazard(s) Identification

Classification (GHS-US):

- Carcinogenicity – Category 1A
- Reproductive Toxicity – Category 2
- Specific Target Organ Toxicity (STOT) – Repeated Exposure, Category 2
- Skin Sensitization – Category 1
- Acute Toxicity (Inhalation) – Category 4

Signal Word: DANGER

Hazard Statements:

- H350: May cause cancer
- H361: Suspected of damaging fertility or the unborn child
- H373: May cause damage to organs through prolonged or repeated exposure
- H317: May cause an allergic skin reaction
- H332: Harmful if inhaled

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/fumes/gas/mist/vapors/spray
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P308+P313: IF exposed or concerned: Get medical advice/attention
- 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	OSHA PEL	ACGIH TLV
Iron	7439-89-6	70–90%	10 mg/m ³	5 mg/m ³ (fume)
Manganese	7439-96-5	1–5%	5 mg/m ³ (ceiling)	0.02 mg/m ³ (I)
Chromium (hexavalent)	18540-29-9	<0.1%	0.005 mg/m ³	0.003 mg/m ³
Nickel	7440-02-0	1–3%	1 mg/m ³	1.5 mg/m ³
Silicon	7440-21-3	0.5–2%	15 mg/m ³ (total)	10 mg/m ³

Note: Exact composition is proprietary and considered a trade secret under 29 CFR 1910.1200(i).

Section 4: First-Aid Measures

Inhalation: Move to fresh air. Seek medical attention if symptoms persist.

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

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if

present. Seek medical attention.

Ingestion: Unlikely route of exposure. If ingested, seek medical attention immediately.

Most important symptoms/effects:

Respiratory irritation, metal fume fever, allergic reactions, and long-term damage to lungs or reproductive organs.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Use extinguishing agent suitable for surrounding fire (e.g., dry powder, CO₂, foam).

Special Hazards: Welding operations may produce hazardous gases and fumes.

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

Section 6: Accidental Release Measures

Personal Precautions: Avoid dust formation. Use personal protective equipment.

Environmental Precautions: Prevent entry into waterways or sewers.

Cleanup Procedures: Collect spilled material mechanically. Avoid creating airborne dust.

Section 7: Handling and Storage

Handling: Use only with adequate ventilation. Avoid breathing fumes/dust. Wear appropriate PPE.

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

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Use local exhaust ventilation.

Personal Protective Equipment (PPE):

- **Respiratory Protection:** Use NIOSH-approved respirators during welding.
- **Skin Protection:** Wear welding gloves and flame-resistant clothing.
- **Eye Protection:** Use safety glasses or welding goggles/shield.

- **Hygiene Measures:** Wash hands before eating or drinking. Do not eat, drink, or smoke when using this product.

Section 9: Physical and Chemical Properties

Property	Value
Appearance	Metallic rod or wire
Odor	Odorless
Odor Threshold	Not applicable
pH	Not applicable
Melting Point	~1450–1600°C
Boiling Point	Not available
Flash Point	Not applicable
Flammability	Non-flammable
Vapor Pressure	Not applicable
Solubility	Insoluble in water
Relative Density	~7.8 (for steel base)

Section 10: Stability and Reactivity

Reactivity: Not reactive under normal use.

Chemical Stability: Stable under recommended storage and handling conditions.

Hazardous Reactions: None known.

Incompatible Materials: Strong acids, oxidizers.

Decomposition Products: Metal oxides, welding fumes (may include manganese, nickel, chromium compounds).

Section 11: Toxicological Information

Likely Routes of Exposure: Inhalation, skin contact, eye contact.

Symptoms: Respiratory irritation, metal fume fever, allergic skin reaction.

Carcinogenicity:

- **Nickel** – IARC Group 1: Carcinogenic
- **Hexavalent Chromium** – IARC Group 1
- **Manganese** – Potential neurotoxicant

Reproductive Toxicity: Suspected reproductive hazard (nickel).

Chronic Effects: Lung damage, respiratory sensitization, neurotoxicity from prolonged exposure.

Section 12: Ecological Information

Ecotoxicity: Harmful to aquatic life with long-lasting effects.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: May bioaccumulate (e.g., nickel, chromium).

Mobility in Soil: Low mobility under normal use.

Other Adverse Effects: Avoid release to the environment.

Section 13: Disposal Considerations

Dispose in accordance with federal, state, and local environmental control regulations. Avoid landfill or incineration without proper authorization. Do not dump into sewers or waterways.

Section 14: Transport Information

UN Number: Not regulated

UN Proper Shipping Name: Not applicable

Transport Hazard Class: Not regulated

Packing Group: Not applicable

Environmental Hazards: Not applicable

Special Precautions: None

Section 15: Regulatory Information



TSCA: All components listed.

SARA 313: This product contains nickel, manganese, and chromium compounds, which are subject to reporting.

California Prop 65: WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Section 16: Other Information

SDS Revision Date: July 1, 2025

Prepared by: Inweld Corporation – Safety and Compliance Department

Disclaimer:

The information provided in this SDS is believed to be accurate and represents the best information available to us at the date of preparation. It is intended to guide safe handling, use, and disposal but does not constitute a warranty or guarantee.