

Safety Data Sheet

Section 1: Identification

- **Product Name:** HF961, HF962, HF963, HF965
- **Product 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 of Issue:** July 1, 2025
- **Revision:** 01

Section 2: Hazard(s) Identification

- **Classification of the substance or mixture (GHS):**
 - Skin irritation: Category 2
 - Eye irritation: Category 2A
 - Carcinogenicity: Category 1A
 - Specific target organ toxicity – Repeated exposure: Category 2
 - Acute toxicity (inhalation): Category 4
- **Signal Word:** DANGER
- **Hazard Statements:**
 - H315: Causes skin irritation
 - H319: Causes serious eye irritation
 - H332: Harmful if inhaled
 - H350: May cause 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
 - P261: Avoid breathing fumes/gases/dust
 - 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
 - P501: Dispose of contents/container in accordance with local/regional/national regulations
- **GHS Pictograms:**



Section 3: Composition/Information on Ingredients

Chemical Name CAS Number % by Weight

Iron	7439-89-6	Balance
Chromium	7440-47-3	10–30%
Nickel	7440-02-0	5–15%
Manganese	7439-96-5	1–5%
Silicon	7440-21-3	0.5–2%

Exact composition withheld as trade secret.

Section 4: First-Aid Measures

- **Inhalation:** Remove victim to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash thoroughly with soap and water. Seek medical attention if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Get medical attention.
- **Ingestion:** Not likely under normal use. If ingested, seek medical attention immediately.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use dry chemical, CO₂, or foam.
- **Unsuitable Media:** Do not use water on molten metal.
- **Hazards During Fire:** Fumes from welding may contain toxic metal oxides.
- **Protective Equipment:** Wear self-contained breathing apparatus (SCBA) and full protective gear.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid breathing dust/fume. Use adequate ventilation.
- **Methods for Clean-Up:** Sweep up material and place in appropriate waste container. Avoid creating dust.

Section 7: Handling and Storage

- **Handling:** Use only with adequate ventilation. Avoid contact with skin and eyes. Do not eat, drink, or smoke during use.
- **Storage:** Store in a cool, dry, well-ventilated area. Keep container tightly closed.

Section 8: Exposure Controls/Personal Protection

- **Exposure Limits:**

Substance OSHA PEL ACGIH TLV

Chromium 1 mg/m³ 0.5 mg/m³

Nickel 1 mg/m³ 1.5 mg/m³

Manganese 5 mg/m³ 0.1 mg/m³

- **Engineering Controls:** Provide adequate ventilation, especially in confined areas.
- **Personal Protective Equipment (PPE):**
 - Eye Protection: Safety goggles
 - Skin Protection: Protective gloves and clothing
 - Respiratory Protection: Use NIOSH-approved respirators when ventilation is inadequate

Section 9: Physical and Chemical Properties

- **Appearance:** Metallic rods or wire
- **Odor:** Odorless
- **Boiling Point:** Not applicable
- **Melting Point:** >1000°C
- **Solubility in Water:** Insoluble
- **Flash Point:** Not applicable
- **Auto-ignition Temperature:** Not applicable
- **pH:** Not applicable

Section 10: Stability and Reactivity

- **Reactivity:** Non-reactive under normal conditions
- **Chemical Stability:** Stable under recommended storage conditions
- **Hazardous Decomposition Products:** Welding fumes may include oxides of metals

- **Incompatible Materials:** Strong acids and oxidizers

Section 11: Toxicological Information

- **Likely Routes of Exposure:** Inhalation, skin and eye contact
- **Symptoms:** Respiratory irritation, skin rash, eye irritation
- **Carcinogenicity:**
 - **Nickel and Chromium VI compounds** are classified as **Group 1 (Carcinogenic to humans)** by IARC
 - OSHA regulated carcinogen

Section 12: Ecological Information

- **Environmental Effects:** No data available for finished product. Components may be harmful to aquatic life.
- **Persistence/Degradability:** Not biodegradable
- **Bioaccumulative Potential:** Potential for bioaccumulation exists with certain metal components

Section 13: Disposal Considerations

- **Waste Disposal:** Dispose of contents/container in accordance with local, state, and federal regulations.
- **RCRA Status:** May be hazardous waste depending on use and contamination

Section 14: Transport Information

- **UN Number:** Not regulated
- **DOT Classification:** Not classified as hazardous for transportation
- **Packing Group:** Not applicable
- **Marine Pollutant:** No

Section 15: Regulatory Information

- **OSHA HCS (29 CFR 1910.1200):** This product is hazardous
- **SARA 313 Components:**
 - Nickel
 - Chromium
 - Manganese
- **TSCA Inventory:** All components are listed

Section 16: Other Information

- **SDS Revision Date:** July 1, 2025
- **Prepared by:** Inweld Corporation, Safety & Compliance
- **Disclaimer:** The information provided is based on our current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements. It should not be construed as guaranteeing any specific property of the product.