Inweld
Welding Alloys and Supplies

Safety Data Sheet

Section 1: Identification

Product identifier:
HF507

Other means of identification:
Filler metal for welding applications

Recommended use:
Welding filler metal

Restrictions on use:
Use only as directed by manufacturer's instructions.

Manufacturer:
Inweld Corporation
3962 Portland St,
Coplay, PA 18037
UNITED STATES

Emergency phone number:
(800) 424-9300 (CHEMTREC)

Manufacturer phone number:
(800) 346-5368

Section 2: Hazard(s) Identification

Classification under OSHA Hazard Communication Standard (29 CFR 1910.1200):

- Carcinogenicity — Category 1B
- Specific Target Organ Toxicity (Repeated Exposure) — Category 1
- Skin Sensitization — Category 1
- Respiratory Sensitization — Category 1

Signal word:
Danger

Hazard statements:

- May cause cancer.
- Causes damage to organs through prolonged or repeated exposure.
- May cause an allergic skin reaction.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements:

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves, protective clothing, eye protection, and face protection.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- If exposed or concerned: Get medical advice/attention.
- Store locked up.
- Dispose of contents/container in accordance with local regulations.

GHS Hazard pictograms:

Section 3: Composition/Information on Ingredients

Chemical Name	CAS Number	Concentration (%)	Notes
Manganese (Mn)	7439-96-5	0.5 – 2.0	Hazardous component
Nickel (Ni)	7440-02-0	5.0 – 15.0	Carcinogen
Chromium (Cr)	7440-47-3	10.0 – 25.0	Carcinogen

Chemical Name	CAS Number	Concentration (%)	Notes
Iron (Fe)	7439-89-6	Balance	
Other trace metals	-	<1.0	

Exact composition may vary by batch.

Section 4: First-Aid Measures

Inhalation:
Remove person to fresh air and keep comfortable for breathing. Seek medical attention if symptoms occur.

Skin contact:
Wash with plenty of soap and water. Remove contaminated clothing. If irritation or rash develops, seek medical advice.

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 immediate medical attention.

Section 5: Fire-Fighting Measures

Suitable extinguishing media:
Use dry chemical, carbon dioxide, or foam extinguishing media.

Unsuitable extinguishing media:
Do not use water jet.

Specific hazards arising from the chemical:
May release hazardous fumes when heated or in fire including metal oxides and toxic gases.

Protective equipment for firefighters:
Wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

Personal precautions:

Avoid dust formation. Use personal protective equipment as described in Section 8.

Environmental precautions:

Prevent entry into drains, sewers, and waterways.

Methods and materials for containment and cleaning up:

Sweep up and collect material in suitable containers for disposal. Avoid generating dust.

Section 7: Handling And Storage

Precautions for safe handling:

- Use with adequate ventilation.
- Avoid inhalation of fumes or dust.
- Use appropriate personal protective equipment (PPE).

Conditions for safe storage:

Store in a cool, dry, well-ventilated place. Keep container tightly closed.

Section 8: Exposure Controls/Personal Protection

Occupational exposure limits:

Substance	OSHA PEL (TWA)	ACGIH TLV (TWA)
Manganese	5 mg/m^3 (Ceiling)	0.02 mg/m^3
Nickel	1 mg/m^3	0.015 mg/m^3
Chromium (VI)	0.005 mg/m^3	0.0005 mg/m^3

Engineering controls:

Use local exhaust ventilation or other controls to maintain airborne levels below limits.

Personal protective equipment (PPE):

- Respiratory protection: Use NIOSH-approved respirator if exposure limits exceeded.
- Gloves: Chemical-resistant gloves.

- Eye protection: Safety glasses or goggles.
- Skin protection: Protective clothing.

Section 9: Physical And Chemical Properties

- **Appearance:** Solid wire or rod
- **Color:** Silver-gray metallic
- **Odor:** Odorless
- **Melting point:** Approx. 1450 – 1600 °C (depends on alloy composition)
- **Boiling point:** Not applicable
- **Flash point:** Not applicable
- **Solubility:** Insoluble in water
- **Density:** Approx. 7.5 – 8.0 g/cm^3

Section 10: Stability And Reactivity

Reactivity: Stable under normal conditions.

Chemical stability: Stable.

Possibility of hazardous reactions: None known under normal conditions.

Conditions to avoid: Avoid overheating and contact with strong acids or bases.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Metal oxides, toxic fumes.

Section 11: Toxicological Information

Likely routes of exposure: Inhalation, skin contact, eye contact.

Symptoms:
Irritation, allergic skin reactions, respiratory sensitization, possible carcinogenic effects.

Chronic effects:
Prolonged or repeated exposure may cause damage to lungs and other organs. Nickel and chromium compounds are known carcinogens.

Section 12: Ecological Information

- Avoid release into the environment.
- No specific data available for HF507, but contains metals that may be harmful to aquatic life.

Section 13: Disposal Considerations

Dispose of in accordance with federal, state, and local regulations. Do not dispose of in drains or watercourses.

Section 14: Transport Information

Not regulated under DOT for shipping.

Section 15: Regulatory Information

- OSHA Hazard Communication Standard (29 CFR 1910.1200)
- TSCA Inventory: Components listed
- CERCLA reportable quantities may apply for certain components.

Section 16: Other Information

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Disclaimer: This SDS is provided as a guide and is based on current knowledge. Users should verify data for their specific applications.