

Safety Data Sheet

Section 1: Identification

Product identifier:

4130

Manufacturer:

Inweld Corporation

3962 Portland St

Coplay, PA 18037, UNITED STATES

Manufacturer Phone Number: (800) 346-5368

Emergency Phone Number:

(800) 424-9300 (CHEMTREC)

Recommended Use:

Welding filler metal for structural steel applications

Restrictions on Use:

Use only as directed for welding applications.

Section 2: Hazard(s) Identification

Classification (per OSHA HCS 29 CFR 1910.1200 and GHS):

- Carcinogenicity, Category 1A
- Specific Target Organ Toxicity (Repeated Exposure), Category 1 (lungs)
- Skin Sensitization, Category 1
- Respiratory Sensitization, Category 1
- Germ Cell Mutagenicity, Category 2

Signal Word:

Danger

Hazard Statements:

- May cause cancer (inhalation of fumes).
- Causes damage to lungs through prolonged or repeated exposure by inhalation.
- May cause an allergic skin reaction.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Suspected of causing genetic defects.

Precautionary Statements:

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

GHS Hazard Pictograms:



Section 3: Composition/Information on Ingredients

Chemical Name CAS Number Approximate % by Weight Notes

Chromium	7440-47-3	0.8 – 1.2 %	Carcinogen, sensitizer
Molybdenum	7439-98-7	0.15 – 0.25 %	
Nickel (trace)	7440-02-0	<0.1 %	Possible sensitizer

Chemical Name CAS Number Approximate % by Weight Notes

Iron (balance) 7439-89-6 Balance

Section 4: First-Aid Measures

Inhalation:

Remove victim to fresh air and keep comfortable for breathing. Seek medical attention if symptoms persist.

Skin Contact:

Wash with soap and water. Remove contaminated clothing. If irritation or rash occurs, get medical attention.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. If irritation persists, seek medical attention.

Ingestion:

Not expected to be a route of exposure for solid metal. If ingested, rinse mouth and seek medical attention if symptoms occur.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Use extinguishing media appropriate for surrounding fire.

Specific Hazards Arising from the Chemical:

Fumes may be generated during welding or cutting.

Protective Equipment for Firefighters:

Wear full protective clothing and self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal Precautions:

Avoid inhalation of dust or fumes. Use respiratory protection if necessary.

Environmental Precautions:

Prevent from entering waterways or drains.

Methods for Cleanup:

Sweep or vacuum spills. Avoid dust generation. Dispose according to regulations.

Section 7: Handling and Storage

Handling:

Avoid breathing fumes or dust. Use adequate ventilation or local exhaust. Wear appropriate PPE.

Storage:

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

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

Component	OSHA PEL (TWA)	ACGIH TLV (TWA)
Chromium (VI)	0.005 mg/m ³	0.05 mg/m ³ (Cr total)
Molybdenum	5 mg/m ³ (dust)	10 mg/m ³ (inhalable)

Engineering Controls:

Use local exhaust ventilation or other engineering controls to keep airborne levels below exposure limits.

Personal Protective Equipment:

- Respiratory Protection: NIOSH-approved respirator when exposure exceeds limits.
- Hand Protection: Chemical-resistant gloves.
- Eye Protection: Safety goggles or face shield.
- Skin Protection: Protective clothing to prevent skin contact.

Section 9: Physical and Chemical Properties

- **Appearance:** Solid wire or rod
- **Color:** Silver-gray metallic
- **Odor:** Odorless
- **Melting Point:** Approx. 1425–1450 °C (2597–2642 °F)
- **Boiling Point:** Not applicable
- **Flash Point:** Not applicable
- **Solubility:** Insoluble in water

Section 10: Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions.
- **Conditions to Avoid:** Avoid contact with strong acids or oxidizers.
- **Hazardous Decomposition Products:** Metal fumes (chromium, nickel, iron oxides) when heated.
- **Possibility of Hazardous Reactions:** None under normal use.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation of fumes, skin contact.
- **Acute Toxicity:** Not expected to be acutely toxic.
- **Chronic Effects:** May cause cancer from inhalation of fumes.
- **Sensitization:** May cause skin and respiratory sensitization.
- **Mutagenicity:** Suspected mutagen.
- **Carcinogenicity:** Chromium VI compounds are carcinogenic to humans.

Section 12: Ecological Information

- **Ecotoxicity:** May be toxic to aquatic life if released.
- **Persistence and Degradability:** Metals do not biodegrade.

- **Bioaccumulative Potential:** Possible accumulation in organisms.
- **Mobility in Soil:** Low.

Section 13: Disposal Considerations

Dispose in accordance with local, state, and federal regulations. Do not release into the environment.

Section 14: Transport Information

- **DOT Classification:** Not regulated as hazardous material.
- **UN Number:** Not applicable.

Section 15: Regulatory Information

- OSHA Hazard Communication Standard (29 CFR 1910.1200)
- EPA TSCA Inventory: Components listed or exempt
- SARA Section 313: May be subject to reporting requirements.

Section 16: Other Information

Preparation Date: 2025-07-01

Manufacturer Contact: Inweld Corporation, 3962 Portland St, Coplay, PA 18037

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