

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 |
| 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.
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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
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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.
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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.
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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.
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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.
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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.
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Section 16: Other Information

Preparation Date: 2025-07-01

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

Emergency Phone: (800) 424-9300