

Safety Data Sheet

Section 1: Identification

Product Name: Hi-Alloy Galvanized Bar

Manufacturer: Inweld Corporation

Address: 3962 Portland St, Coplay, PA 18037, UNITED STATES

Manufacturer Phone: (800) 346-5368

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

Recommended Use: Filler metal for welding applications

Restrictions on Use: For industrial use only

Section 2: Hazard(s) Identification

GHS Classification:

- Carcinogenicity — Category 1A
- Specific target organ toxicity — repeated exposure (lungs) — Category 1
- Acute toxicity, inhalation — Category 4
- Skin irritation — Category 2
- Eye irritation — Category 2A

Signal Word: Danger

Hazard Statements:

- May cause cancer (inhalation).
- Causes skin irritation.
- Causes serious eye irritation.
- Harmful if inhaled.
- Causes damage to lungs through prolonged or repeated exposure.

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/face protection.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF ON SKIN: Wash with plenty of water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- Get medical advice/attention if you feel unwell or if irritation persists.
- Dispose of contents/container in accordance with local regulations.

GHS Hazard Pictograms:



Section 3: Composition/Information on Ingredients

Chemical Name	CAS Number	Approximate % (wt)	Notes
Zinc (as coating)	7440-66-6	5 - 10 %	Galvanized coating
Iron (Fe)	7439-89-6	Balance	Base metal
Lead (Pb) (possible trace)	7439-92-1	<0.1 % (trace)	May be present
Other alloying elements	Various	<1 %	

Section 4: First-Aid Measures

Inhalation:

Move to fresh air immediately. If breathing is difficult, administer oxygen and seek medical attention.

Skin Contact:

Wash affected area with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.

Eye Contact:

Rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy to do. Seek medical attention if irritation persists.

Ingestion:

Rinse mouth. Do not induce vomiting. Seek medical advice.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Use dry chemical, CO₂, water spray, or foam.

Specific Hazards: May release toxic fumes of metal oxides when burned.

Protective Equipment: Use full protective gear and self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal Precautions: Avoid inhalation of dust/fumes. Use appropriate PPE.

Environmental Precautions: Prevent entry into waterways.

Methods for Cleanup: Sweep or vacuum dust. Avoid generating dust clouds.

Section 7: Handling and Storage

Handling:

- Avoid inhalation of dust/fumes.
- Use adequate ventilation.
- Avoid skin and eye contact.

Storage:

- Store in a cool, dry, well-ventilated place.
- Keep away from acids and incompatible materials.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

- Zinc fume: OSHA PEL 5 mg/m³ (fume)
- Lead: OSHA PEL 50 µg/m³ (if present)

Engineering Controls: Use local exhaust ventilation to control dust/fumes.

Personal Protective Equipment:

- Respiratory protection if ventilation is inadequate.
- Chemical resistant gloves.
- Safety goggles or face shield.
- Protective clothing.

Section 9: Physical and Chemical Properties

Property	Value
Appearance	Solid bar with galvanized coating
Odor	Odorless
Melting Point	Approximately 1400-1500 °F (metal)
Boiling Point	Not applicable
Solubility in Water	Insoluble
Specific Gravity	Approximately 7.8 g/cm ³

Section 10: Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Avoid exposure to acids and strong oxidizers.

Hazardous Decomposition Products: Metal fumes (zinc oxide, iron oxide) during welding or burning.

Section 11: Toxicological Information

- Inhalation of fumes may cause metal fume fever.
- Chronic exposure to lead or zinc fumes can cause lung damage and systemic toxicity.
- May cause skin and eye irritation.

Section 12: Ecological Information

Not expected to be harmful to aquatic life when in solid form. Avoid release of dust or fumes into environment.

Section 13: Disposal Considerations

Dispose of in accordance with federal, state, and local regulations.

Section 14: Transport Information

Not classified as hazardous for transport.

Section 15: Regulatory Information

Contains components that may be regulated under OSHA, TSCA, and other regulations.

Section 16: Other Information

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