Inweld
Welding Alloys and Supplies

Safety Data Sheet

Section 1: Identification

- **Product Identifier:** Hi-Alloy 300A
- **Other Means of Identification:** Filler metal for welding applications
- **Recommended Use:** Welding filler metal
- **Restrictions on Use:** Use only as directed in industrial applications

Manufacturer Information:
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Coplay, PA 18037
UNITED STATES

Telephone Number: (800) 346-5368
Emergency Phone Number: CHEMTREC (800) 424-9300

Section 2: Hazard(s) Identification

Classification (29 CFR 1910.1200):

- **Carcinogenicity** – Category 1A
- **Specific Target Organ Toxicity – Repeated Exposure** – Category 2
- **Acute Toxicity – Inhalation (Dust/Fume)** – Category 4
- **Eye Irritation** – Category 2B
- **Skin Irritation** – Category 2

Signal Word:

DANGER

Hazard Statements:

- H350: May cause cancer (inhalation)

- H373: May cause damage to organs through prolonged or repeated exposure
- H332: Harmful if inhaled
- H315: Causes skin irritation
- H320: Causes eye irritation

Precautionary Statements:

- P201: Obtain special instructions before use
- P260: Do not breathe dust/fume/gas/mist/vapors/spray
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P308+P313: IF exposed or concerned: Get medical advice/attention
- P314: Get medical advice/attention if you feel unwell
- P501: Dispose of contents/container in accordance with local regulations

GHS Pictograms:

Section 3: Composition/Information on Ingredients

Chemical Name	CAS Number	% by Weight
Iron	7439-89-6	Balance
Chromium (Hexavalent)*	7440-47-3	<10%
Nickel	7440-02-0	<10%
Manganese	7439-96-5	<5%
Silicon	7440-21-3	<2%

*May be present in welding fumes. Actual exposure depends on process and ventilation.

Section 4: First-Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash thoroughly with soap and water. Get medical attention if irritation develops.
- **Eye Contact:** Flush with water for 15 minutes. Seek medical attention if irritation persists.
- **Ingestion:** Not a likely route of exposure. If ingested, seek medical attention.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, CO_2, foam, water spray
- **Unsuitable Media:** None known
- **Special Protective Equipment:** Wear full protective gear and self-contained breathing apparatus

Section 6: Accidental Release Measures

- Avoid generating dust.
- Ventilate area.
- Use proper PPE.
- Collect material using methods that minimize dust generation.
- Dispose of in accordance with local, state, and federal regulations.

Section 7: Handling and Storage

- Handle with adequate ventilation
- Avoid breathing fumes
- Store in a dry, well-ventilated area away from incompatible materials

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

Component	OSHA PEL	ACGIH TLV
Chromium	1 mg/m^3 (TWA)	0.5 mg/m^3 (TWA)
Nickel	1 mg/m^3	1.5 mg/m^3
Manganese	5 mg/m^3 Ceiling	0.1 mg/m^3 (TWA)

Engineering Controls:

Use local exhaust ventilation to reduce exposure to fumes.

Personal Protective Equipment (PPE):

- Eye/Face: Safety glasses or face shield
- Skin: Gloves and protective clothing
- Respiratory: Use NIOSH-approved respirators when ventilation is inadequate

Section 9: Physical and Chemical Properties

- **Appearance:** Solid wire or rod, metallic grey
- **Odor:** Odorless
- **Boiling Point:** Not applicable
- **Melting Point:** ~1400°C
- **Solubility in Water:** Insoluble
- **Flash Point:** Not applicable
- **Evaporation Rate:** Not applicable

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Reactivity:** Inert in solid form

- **Hazardous Decomposition Products:** Fume and gases during welding may contain oxides of metal, chromium VI, and other hazardous substances

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, skin, eyes
- **Symptoms:** Eye and skin irritation, metal fume fever, respiratory irritation
- **Chronic Effects:** Long-term exposure to welding fumes may cause lung damage, cancer, or reproductive effects
- **Carcinogenicity:**
    - IARC: Chromium VI and Nickel – Group 1 (Carcinogenic to humans)
    - NTP: Known carcinogen (Nickel, Chromium VI)

Section 12: Ecological Information

- Harmful to aquatic life in large quantities
- Avoid release into the environment
- No specific data on persistence or bioaccumulation

Section 13: Disposal Considerations

- Dispose in accordance with local, state, and federal environmental control regulations
- Do not discard into sewers or waterways

Section 14: Transport Information

- **DOT:** Not regulated as hazardous
- **IMDG/IATA:** Not classified as dangerous goods

Section 15: Regulatory Information

- TSCA: Components listed
- SARA Title III: Chromium and Nickel are subject to reporting
- California Proposition 65: WARNING – This product contains chemicals known to the State of California to cause cancer

Section 16: Other Information

- **Prepared by:** Inweld Corporation
- **Phone Number:** (800) 346-5368
- **Revision Date:** July 2, 2025

Disclaimer: The information provided herein is based on sources believed to be reliable. It is the user's responsibility to determine the suitability of this information for their particular purpose. Inweld Corporation assumes no liability for improper use of this product.