Inweld
Welding Alloys and Supplies

Safety Data Sheet

Section 1: Identification

- **Product Identifier:** Hardbase 30
- **Recommended Use:** Welding filler metal
- **Manufacturer:** Inweld Corporation
- **Address:** 3962 Portland St, Coplay, PA 18037, UNITED STATES
- **Telephone Number:** (800) 346-5368
- **Emergency Telephone Number (Chemtrec):** (800) 424-9300
- **SDS Number:** IW-HB30-01
- **Date of Issue:** 2025-07-01

Section 2: Hazard(s) Identification

- **Classification:**
  - Acute Toxicity (Inhalation) – Category 4
  - Skin Irritation – Category 2
  - Eye Irritation – Category 2A
  - Carcinogenicity – Category 1B
  - Specific Target Organ Toxicity (Repeated Exposure) – Category 2
- **Signal Word: Danger**
- **Hazard Statements:**
  - H315: Causes skin irritation
  - H319: Causes serious eye irritation
  - H332: Harmful if inhaled
  - H350: May cause cancer

- H373: May cause damage to organs through prolonged or repeated exposure

- **Precautionary Statements:**
  - P201: Obtain special instructions before use
  - P202: Do not handle until all safety precautions have been read and understood
  - 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
  - P501: Dispose of contents/container in accordance with local/regional/national regulations

GHS Pictograms:

Section 3: Composition/Information on Ingredients

Chemical Name	CAS Number	Weight %	Classification
Iron	7439-89-6	> 70%	Not classified
Chromium (Cr)	7440-47-3	10–20%	Carc. 1B, STOT RE 1
Manganese (Mn)	7439-96-5	5–15%	STOT RE 2, Acute Tox. 4 (Inhalation)
Silicon (Si)	7440-21-3	< 5%	Not classified
Nickel (Ni)	7440-02-0	< 1%	Carc. 1B, Skin Sens. 1, STOT RE 1

Section 4: First-Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Seek medical attention.
- **Ingestion:** Not a normal route of exposure. Seek medical advice if ingested.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use dry chemical, foam, CO_2, or water spray.
- **Hazards:** Fumes may contain oxides of metal and other toxic substances.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective gear.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid breathing dust or fumes. Wear appropriate PPE.
- **Environmental Precautions:** Prevent from entering drains and waterways.
- **Cleanup:** Sweep up material and place in suitable container. Avoid creating dust.

Section 7: Handling and Storage

- **Handling:** Use in well-ventilated areas. Avoid inhaling fumes.
- **Storage:** Store in a dry, cool, well-ventilated area. Keep container closed when not in use.

Section 8: Exposure Controls/Personal Protection

Component	OSHA PEL	ACGIH TLV
Iron Oxide	10 mg/m^3 (fume)	5 mg/m^3 (resp. frac.)
Manganese	5 mg/m^3 (ceiling)	0.1 mg/m^3 (inhal.)

Component	OSHA PEL	ACGIH TLV
Chromium	1 mg/m^3	0.5 mg/m^3
Nickel	1 mg/m^3	0.1 mg/m^3

- **Engineering Controls:** Use local exhaust ventilation
- **Personal Protective Equipment (PPE):**
  - Eye Protection: Safety goggles
  - Skin Protection: Protective gloves
  - Respiratory Protection: Use approved respirator if ventilation is inadequate

Section 9: Physical and Chemical Properties

- **Appearance:** Metallic rods or wire
- **Color:** Silver/gray
- **Odor:** Odorless
- **Melting Point:** ~1350–1500°C
- **Boiling Point:** Not applicable
- **Solubility:** Insoluble in water
- **Flash Point:** Not applicable

Section 10: Stability and Reactivity

- **Reactivity:** Not reactive under normal conditions
- **Chemical Stability:** Stable under recommended conditions
- **Hazardous Decomposition Products:** Metal oxides, chromium compounds, manganese fumes
- **Conditions to Avoid:** Incompatible with strong acids; excessive heat

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, skin, eyes
- **Symptoms:** Irritation to respiratory tract, eyes, skin; long-term exposure can cause organ damage or cancer
- **Carcinogenicity:**
    - **IARC:** Chromium VI and Nickel – Group 1 (Carcinogenic to humans)
    - **NTP:** Known human carcinogens

Section 12: Ecological Information

- No data available for the finished product. Components may persist in the environment. Avoid release into waterways.

Section 13: Disposal Considerations

- Dispose of in accordance with local, state, and federal regulations. Do not dispose of in sewer systems.

Section 14: Transport Information

- **DOT Classification:** Not regulated
- **UN Number:** Not applicable
- **Packing Group:** Not applicable
- **Marine Pollutant:** No

Section 15: Regulatory Information

- **TSCA:** All components listed
- **SARA Title III Sections 311/312:** Chronic Health Hazard
- **SARA 313:** Contains manganese, chromium, and nickel

Section 16: Other Information

- **Date of Preparation:** 2025-07-01
- **Revision Number:** 1
- **Disclaimer:** The information provided is believed to be accurate but is not exhaustive. It is the user's responsibility to ensure safe usage and compliance with all applicable regulations.