

## Safety Data Sheet

### Section 1: Identification

**Product Name:**

100S1, 110S1, 120S1, 90S-B9

**Recommended Use:**

Welding filler metals for joining steel materials.

**Restrictions on Use:**

For industrial use only. Use according to welding safety standards.

**Manufacturer:**

Inweld Corporation  
3962 Portland St, Coplay, PA 18037, UNITED STATES

**Manufacturer Phone Number:** (800) 346-5368

**Emergency Phone Number:**

(800) 424-9300 (CHEMTREC)

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### Section 2: Hazard(s) Identification

**Classification (GHS):**

- Carcinogenicity: Category 1A
- Specific Target Organ Toxicity (Repeated Exposure): Category 1
- Skin Sensitization: Category 1
- Eye Irritation: Category 2A
- Respiratory Sensitization: Category 1

**Signal Word:**

**Danger**

**Hazard Statements:**

- May cause cancer.
- Causes serious eye irritation.

- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause allergic skin reaction.
- Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements:**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Avoid breathing fumes or dust.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves, eye protection, and respiratory protection.
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
- If on skin: Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical advice/attention.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- Store locked up.
- Dispose of contents/container in accordance with local regulations.

**GHS Hazard Pictograms:**



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**Section 3: Composition/Information on Ingredients**

Chemical Name	CAS Number	Concentration (%)	Notes
Iron (Fe)	7439-89-6	Balance	Base metal
Carbon	7440-44-0	≤ 0.5	Alloying element
Manganese	7439-96-5	0.5 – 2.0	Alloying element

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Concentration (%)</b>	<b>Notes</b>
Silicon	7440-21-3	0.2 – 1.0	Alloying element
Chromium	7440-47-3	≤ 1.0	Alloying element
Nickel	7440-02-0	≤ 0.5	Trace amounts possible
Others (trace metals, etc.)	Various	< 1.0	May include molybdenum, copper

*Note: Composition may vary slightly by product type.*

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## **Section 4: First-Aid Measures**

### **Inhalation:**

Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

### **Skin Contact:**

Wash affected area thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation or rash develops.

### **Eye Contact:**

Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present. Get medical attention if irritation persists.

### **Ingestion:**

Do not induce vomiting. Rinse mouth. Seek medical attention immediately.

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## **Section 5: Fire-Fighting Measures**

### **Suitable Extinguishing Media:**

Use dry chemical, CO<sub>2</sub>, foam, or water spray.

### **Specific Hazards:**

Dust or fumes may ignite if dispersed in air and exposed to ignition source. Welding fumes can be hazardous.

**Protective Equipment:**

Firefighters should wear self-contained breathing apparatus and protective clothing.

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**Section 6: Accidental Release Measures**

**Personal Precautions:**

Avoid inhalation of dust or fumes. Use appropriate personal protective equipment.

**Environmental Precautions:**

Prevent material from entering drains or waterways.

**Methods for Cleanup:**

Sweep or vacuum material and place in a suitable container for disposal.

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**Section 7: Handling and Storage**

**Handling:**

- Avoid breathing dust or fumes.
- Use in well-ventilated areas.
- Wear appropriate PPE (gloves, eye protection, respirators if needed).

**Storage:**

- Store in a cool, dry place.
  - Keep containers tightly closed when not in use.
  - Keep away from incompatible materials.
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**Section 8: Exposure Controls / Personal Protection**

**Exposure Limits:**

Consult local regulations for welding fumes and metal dust limits.

**Engineering Controls:**

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

**Personal Protective Equipment (PPE):**

- Respiratory protection if ventilation is inadequate.
  - Safety goggles or face shield.
  - Protective gloves resistant to metals and heat.
  - Protective clothing.
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**Section 9: Physical and Chemical Properties**

Property	Typical Value
Appearance	Solid wire or rods, metallic gray
Odor	Odorless
Melting Point	Varies by alloy (~1400-1600°C)
Boiling Point	Not applicable
Vapor Pressure	Not applicable
Density	Approx. 7.8 g/cm <sup>3</sup>
Solubility in Water	Insoluble

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**Section 10: Stability and Reactivity**

**Stability:**

Stable under normal conditions.

**Conditions to Avoid:**

Avoid excessive heat and incompatible materials.

**Incompatible Materials:**

Strong acids, oxidizers.

**Hazardous Decomposition Products:**

Fumes may include metal oxides, carbon monoxide, and other hazardous substances when heated or welded.

## **Section 11: Toxicological Information**

- May cause cancer (due to certain metal components and fumes).
  - May cause respiratory and skin sensitization.
  - Prolonged exposure to fumes can cause lung damage.
  - Eye contact causes irritation.
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## **Section 12: Ecological Information**

- Avoid release to the environment.
  - Not readily biodegradable.
  - Toxicity to aquatic life due to metals.
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## **Section 13: Disposal Considerations**

Dispose of in accordance with local, state, and federal regulations. Do not dispose of as regular waste.

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## **Section 14: Transport Information**

- Not classified as dangerous goods for transport.
  - Handle according to standard shipping practices.
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## **Section 15: Regulatory Information**

- Complies with OSHA Hazard Communication Standard (29 CFR 1910.1200).
  - May contain trace amounts of carcinogenic metals regulated by OSHA and EPA.
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## **Section 16: Other Information**



**Preparation Date:** June 4, 2025

**Revision:** 1.0

**Disclaimer:**

This SDS is provided as a guide. Users must ensure safety practices conform to their workplace regulations.