

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)

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:



Section 3: Composition/Information on Ingredients

Chemical Name	CAS Number	Concentration (%)	Notes
Iron (Fe)	7439-89-6	Balance	Base metal

Chemical Name	CAS Number	Concentration (%)	Notes
Carbon	7440-44-0	≤ 0.5	Alloying element
Manganese	7439-96-5	0.5 – 2.0	Alloying element
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.

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.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Use dry chemical, CO₂, 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.

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.

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.

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.

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 ³
Solubility in Water	Insoluble

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.

Section 12: Ecological Information

- Avoid release to the environment.
- Not readily biodegradable.
- Toxicity to aquatic life due to metals.

Section 13: Disposal Considerations

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

Section 14: Transport Information

- Not classified as dangerous goods for transport.
- Handle according to standard shipping practices.

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.

Section 16: Other Information

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Revision: 1.0

Disclaimer:

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