

Safety Data Sheet

Section 1: Identification

Product Name:

80S-B2, 70S-B2L, 90S-B3, 80S-B8, 80S-B6

Manufacturer:

Inweld Corporation

3962 Portland St, Coplay, PA 18037, UNITED STATES

Manufacturer Phone Number: (800) 346-5368

Emergency Phone Number:

(800) 424-9300

Recommended Use:

Welding filler metals for various applications

Restrictions on Use:

Use only as recommended by the manufacturer.

Section 2: Hazard(s) Identification

Classification (GHS):

- Carcinogenicity: Category 1A
- Specific target organ toxicity (repeated exposure): Category 1
- Respiratory sensitization: Category 1
- Skin sensitization: Category 1
- Eye irritation: Category 2A
- Hazardous to the aquatic environment (chronic): Category 3

Signal Word:

Danger

Hazard Statements:

- May cause cancer.
- Causes damage to organs through prolonged or repeated exposure.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- Harmful to aquatic life with long lasting effects.

Precautionary Statements:

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If exposed or concerned: Get medical advice/attention.
- Avoid release to the environment.
- Dispose of contents/container in accordance with local/regional regulations.

GHS Hazard Pictograms:



Section 3: Composition/Information on Ingredients

Chemical Name	CAS Number	Approx. % by Weight
Iron	7439-89-6	Balance
Manganese	7439-96-5	0.5 - 2.0%
Chromium	7440-47-3	0.1 - 1.0%
Nickel	7440-02-0	0.05 - 0.5%

Chemical Name	CAS Number	Approx. % by Weight
Silicon	7440-21-3	0.5 - 1.0%
Carbon	7440-44-0	0.03 - 0.1%
Other trace elements	N/A	< 0.1%

Note: Exact composition varies by specific filler metal designation.

Section 4: First-Aid Measures

Inhalation:

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

Skin Contact:

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

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing and seek medical attention.

Ingestion:

Rinse mouth. Do NOT induce vomiting. Seek medical advice immediately.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Dry chemical, CO₂, foam, or water spray.

Specific Hazards:

May release toxic fumes under fire conditions.

Protective Equipment:

Wear self-contained breathing apparatus and full protective gear.

Section 6: Accidental Release Measures

- Avoid raising dust.
- Sweep up and collect for disposal.
- Avoid release to environment.
- Use appropriate protective equipment.

Section 7: Handling and Storage

Handling:

- Use with adequate ventilation.
- Avoid inhalation of dust and fumes.
- Avoid contact with skin and eyes.

Storage:

- Store in a dry, cool, well-ventilated place.
- Keep container tightly closed.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

Consult applicable OSHA PELs and ACGIH TLVs for metal fumes and dust.

Engineering Controls:

Use local exhaust ventilation.

Personal Protective Equipment:

- Respiratory protection if ventilation is inadequate.
- Protective gloves, safety goggles, and protective clothing.

Section 9: Physical and Chemical Properties

- **Appearance:** Solid wire or rod
- **Color:** Metallic gray/silver

- **Odor:** Odorless
- **Melting Point:** Approximately 1450-1530 °C (depends on alloy)
- **Boiling Point:** Not applicable
- **Solubility in Water:** Insoluble

Section 10: Stability and Reactivity

- Stable under normal conditions.
- Avoid contact with strong acids and bases.
- Hazardous decomposition products may include metal oxides and fumes.

Section 11: Toxicological Information

- May cause respiratory sensitization and allergic skin reactions.
- Contains or produces fumes that may cause cancer with long-term exposure.
- Prolonged inhalation may cause lung damage.

Section 12: Ecological Information

- Harmful to aquatic life with long lasting effects.
- Avoid release into waterways.

Section 13: Disposal Considerations

- Dispose in accordance with local, state, and federal regulations.
- Do not dispose of into the environment.

Section 14: Transport Information

- Not regulated as hazardous material for transport.

Section 15: Regulatory Information

- OSHA Hazard Communication Standard (29 CFR 1910.1200)
- Contains substances listed under various chemical inventories.

Section 16: Other Information

Prepared by: Inweld Corporation

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