

Safety Data Sheet

Section 1: Identification

Product Identifier: SA-1 BLUE

Other Means of Identification: Welding Electrode, Filler Metal

Recommended Use: Arc welding applications

Manufacturer: Inweld Corporation

Address: 3962 Portland St, Coplay, PA 18037, UNITED STATES

Phone Number: (800) 346-5368

Emergency Phone Number (CHEMTREC): (800) 424-9300

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Section 2: Hazard(s) Identification

Classification:

- **Health Hazards:**
 - Carcinogenicity (Category 1A)
 - Reproductive Toxicity (Category 1B)
 - Specific Target Organ Toxicity – Repeated Exposure (Category 1)
 - Acute Toxicity – Inhalation (Category 4)
 - Skin Irritation (Category 2)
 - Eye Irritation (Category 2A)

Signal Word: DANGER

Hazard Statements:

- May cause cancer
- Suspected of damaging fertility or the unborn child
- Causes damage to organs through prolonged or repeated exposure
- Harmful if inhaled

- Causes skin irritation
- Causes serious eye irritation

Precautionary Statements:

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Wash hands and exposed skin thoroughly after handling
- Use only outdoors or in a well-ventilated area

GHS Hazard Pictograms:



Section 3: Composition/Information on Ingredients

Chemical Name	CAS Number	Weight %
Iron	7439-89-6	> 85%
Manganese	7439-96-5	1–5%
Silicon Dioxide	7631-86-9	0.5–2%
Chromium Compounds	Varies	< 1%
Nickel Compounds	Varies	< 1%
Fluorides	16984-48-8	< 2%

Note: Exact percentages withheld as a trade secret.

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 several minutes. Remove contact lenses if present.

Ingestion: Not an expected route of exposure. Seek medical attention if symptoms occur.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Use extinguishing agents suitable for surrounding fire.

Hazards from Combustion Products: Metal fumes, oxides of metal, possible fluorides.

Protective Equipment: Wear self-contained breathing apparatus (SCBA).

Section 6: Accidental Release Measures

Personal Precautions: Use appropriate PPE. Avoid dust and fume inhalation.

Environmental Precautions: Prevent release into the environment.

Cleanup Methods: Sweep or vacuum up material. Avoid creating dust.

Section 7: Handling and Storage

Handling: Avoid inhalation of fumes/dust. Use only with adequate ventilation.

Storage: Store in a dry area away from moisture.

Section 8: Exposure Controls/Personal Protection

Component OSHA PEL		ACGIH TLV
Iron	10 mg/m ³	5 mg/m ³ (resp.)
Manganese	5 mg/m ³ (ceiling)	0.1 mg/m ³
Chromium	1 mg/m ³	0.5 mg/m ³
Nickel	1 mg/m ³	1.5 mg/m ³

Engineering Controls: Use local exhaust ventilation.

PPE:

- **Respiratory Protection:** NIOSH-approved respirator when required
- **Eye Protection:** Safety glasses or goggles
- **Skin Protection:** Protective gloves, flame-resistant clothing

Section 9: Physical and Chemical Properties

- **Appearance:** Solid rod or wire
- **Color:** Blue-coated
- **Odor:** Odorless
- **Melting Point:** ~1400–1500°C
- **Boiling Point:** Not applicable
- **Solubility in Water:** Insoluble

Section 10: Stability and Reactivity

Stability: Stable under normal conditions

Hazardous Reactions: None under normal use

Incompatible Materials: Strong acids, strong oxidizers

Hazardous Decomposition Products: Metal oxides, fluorides, ozone, nitrogen oxides

Section 11: Toxicological Information

- **Likely Routes of Exposure:** Inhalation, skin, eye contact
- **Carcinogenicity:** Contains compounds classified by IARC/NTP as carcinogens
- **Symptoms:** Coughing, irritation, metal fume fever, dermatitis, potential long-term respiratory effects

Section 12: Ecological Information

Avoid release to the environment. No data available on long-term ecological effects.

Section 13: Disposal Considerations

Dispose of in accordance with local, regional, and federal regulations. Do not dump into sewers or waterways.

Section 14: Transport Information

Not regulated as hazardous for transport.

Section 15: Regulatory Information

This product contains materials regulated under SARA Title III, Sections 313.

Contains substances listed on California Proposition 65 (Nickel, Chromium).

Section 16: Other Information

Prepared by: Inweld Corporation

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Disclaimer: This information is believed to be accurate but is not exhaustive and is provided in good faith for guidance. Users are responsible for ensuring the suitability of this product for their specific application.