

Safety Data Sheet

Section 1: Identification

Product Identifier:

FLUXKORED Wire

Recommended Use:

Filler metal for welding applications.

Manufacturer:

Inweld Corporation

3962 Portland St

Coplay, PA 18037

United States

Phone Number (General Information):

(800) 346-5368

Emergency Phone Number (CHEMTREC):

(800) 424-9300

Section 2: Hazard(s) Identification

Classification of the substance or mixture:

- **Carcinogenicity** – Category 1B
- **Specific target organ toxicity – Repeated exposure (Respiratory tract, Nervous system)** – Category 2
- **Acute toxicity (Inhalation)** – Category 4
- **Skin sensitization** – Category 1
- **Eye irritation** – Category 2A

Signal Word:

DANGER

Hazard Statements:

- H302: Harmful if swallowed
- H332: Harmful if inhaled
- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation
- H350: May cause cancer (inhalation)
- 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
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P308 + P313: IF exposed or concerned: Get medical advice/attention
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations

GHS Pictograms:



Section 3: Composition/Information on Ingredients

Chemical Name	CAS Number	% by Weight
Iron	7439-89-6	60–80%
Manganese	7439-96-5	1–5%
Silica (Amorphous)	7631-86-9	1–5%

Chemical Name	CAS Number	% by Weight
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Calcium Fluoride (Flux)	7789-75-5	5–15%
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Titanium Dioxide	13463-67-7	1–5%
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Hexavalent Chromium*	18540-29-9	<0.1%
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*Present in fume form during welding processes.

Section 4: First-Aid Measures

Inhalation:

Remove to fresh air. Seek medical attention if symptoms persist.

Skin Contact:

Wash skin 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. Seek medical attention.

Ingestion:

Do not induce vomiting. Rinse mouth. Get medical advice if you feel unwell.

Most important symptoms/effects, acute and delayed:

Irritation to eyes and respiratory system, allergic skin reactions, possible cancer risk with prolonged inhalation of welding fumes.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Use extinguishing media appropriate for surrounding fire (e.g., water spray, dry chemical, foam).

Special Hazards Arising from the Substance:

Thermal decomposition can release metal oxides and other toxic fumes.

Protective Equipment:

Firefighters should wear self-contained breathing apparatus and full protective gear.

Section 6: Accidental Release Measures

Personal Precautions:

Avoid contact with skin, eyes, and clothing. Avoid inhalation of dust and fumes.

Environmental Precautions:

Prevent entry into sewers and waterways.

Methods for Cleanup:

Pick up solid material and place into a suitable labeled container for disposal.

Section 7: Handling and Storage

Handling:

Use in well-ventilated areas. Avoid breathing fumes. Wear appropriate PPE.

Storage:

Store in a cool, dry, well-ventilated area away from incompatible materials.

Section 8: Exposure Controls/Personal Protection

Component	OSHA PEL	ACGIH TLV
Iron	10 mg/m ³ (fume) 5 mg/m ³ (resp.)	
Manganese	5 mg/m ³ (ceiling) 0.02 mg/m ³	
Silica (amorphous)	20 mppcf	10 mg/m ³
Hexavalent Chromium	5 µg/m ³	0.05 mg/m ³

Engineering Controls:

Use local exhaust ventilation during welding.

Personal Protection:

- Respirator: Use NIOSH-approved respirator for welding fume
- Eye Protection: Welding helmet with proper filter lens
- Skin Protection: Flame-resistant gloves and clothing

Section 9: Physical and Chemical Properties

Property	Value
Appearance	Metallic wire
Odor	Odorless
Melting Point	~1400–1500 °C
Flash Point	Not applicable
Solubility in Water	Insoluble
Density	~7.8 g/cm ³

Section 10: Stability and Reactivity

Reactivity:

Stable under normal conditions.

Chemical Stability:

Stable under recommended storage conditions.

Incompatible Materials:

Strong acids, strong oxidizers.

Hazardous Decomposition Products:

Welding fumes containing metal oxides, carbon monoxide, ozone, and possibly hexavalent chromium.

Section 11: Toxicological Information

Likely Routes of Exposure:

Inhalation, skin and eye contact

Symptoms:

Eye and skin irritation, respiratory irritation, metal fume fever

Carcinogenicity:

- **IARC:** Titanium Dioxide and welding fumes – Group 2B (possibly carcinogenic)
- **NTP:** Known human carcinogen (welding fumes)

Section 12: Ecological Information

Ecotoxicity:

Not expected to be hazardous to the environment in solid form. Welding fume particulates may be harmful to aquatic life.

Persistence and Degradability:

Not biodegradable.

Section 13: Disposal Considerations

Dispose in accordance with local, regional, national, and international regulations. Fumes and particulates may require hazardous waste disposal.

Section 14: Transport Information

DOT Classification:

Not regulated as a hazardous material under DOT in solid wire form.

Section 15: Regulatory Information

TSCA Inventory:

All components listed.

SARA Title III Sections 311/312:

Chronic Health Hazard

SARA Title III Section 313:

Manganese, Chromium compounds (as fume)

Section 16: Other Information

SDS Revision Date: July 1, 2025

Prepared by: Inweld Corporation – Safety & Compliance

Disclaimer:

This SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. It is not meant to be an all-inclusive document. Users should read and understand this SDS in the context of how the product will be handled and used in the workplace.