

Safety Data Sheet

Section 1: Identification

Product Identifier: 129 Flux

Product Use: Welding / Metalworking Flux

Manufacturer: Inweld Corporation

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

Telephone Number: (800) 346-5368

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

Date of Preparation/Revision: July 2, 2025

Section 2: Hazard(s) Identification

Classification (GHS-US):

- Skin Irritation – Category 2
- Eye Irritation – Category 2A
- Carcinogenicity – Category 1A
- Specific Target Organ Toxicity (Repeated Exposure) – Category 2
- Acute Toxicity, Inhalation – Category 4

Signal Word: DANGER

Hazard Statements:

- Causes skin irritation
- Causes serious eye irritation
- May cause cancer (inhalation)
- May cause damage to organs through prolonged or repeated exposure (lungs)
- Harmful if inhaled

Precautionary Statements:

- **Prevention:** Wear protective gloves/eye protection/face protection. Avoid breathing dust or fumes. Use only outdoors or in a well-ventilated area. Do not eat, drink, or smoke when using this product.
- **Response:** IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Get medical advice/attention if you feel unwell.
- **Storage:** Store in a well-ventilated place. Keep container tightly closed.
- **Disposal:** Dispose of contents/container in accordance with local/regional/national regulations.

GHS Pictograms:



Section 3: Composition/Information on Ingredients

Substance	CAS Number	% by Weight
Potassium Silicate	1312-76-1	20–40%
Cryolite (Na_3AlF_6)	15096-52-3	20–50%
Fluorides (as F^-)	7789-75-5	5–20%
Silica, Amorphous	7631-86-9	1–5%

Exact percentages are withheld as trade secret.

Section 4: First-Aid Measures

Inhalation: Move to fresh air. Get medical attention if symptoms persist.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present. Seek medical attention.

Ingestion: Do not induce vomiting. Rinse mouth and seek medical attention immediately.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Use dry chemical, foam, carbon dioxide, or water spray.

Hazardous Combustion Products: Metal oxides, fluoride gases, toxic fumes.

Protective Equipment for Firefighters: Full protective gear and self-contained breathing apparatus (SCBA).

Section 6: Accidental Release Measures

- Use appropriate PPE.
- Avoid dust formation.
- Ventilate area.
- Sweep or vacuum up material and place it in appropriate waste container.
- Prevent release to sewers or waterways.

Section 7: Handling and Storage

Handling: Avoid breathing fumes or dust. Use with adequate ventilation. Wash hands after use.

Storage: Keep container tightly closed in a dry, well-ventilated area. Store away from acids and moisture.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

Substance	OSHA PEL	ACGIH TLV
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Fluorides (as F ⁻)	2.5 mg/m ³	2.5 mg/m ³
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Cryolite (as F ⁻)	2.5 mg/m ³	2.5 mg/m ³
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Engineering Controls: Use local exhaust ventilation to keep airborne concentrations below limits.

Personal Protective Equipment (PPE):

- Respirator: Use NIOSH-approved respirator if exposure exceeds limits.

- Skin: Wear protective gloves and clothing.
- Eyes: Safety glasses with side shields or goggles.

Section 9: Physical and Chemical Properties

- Appearance: White to gray powder
- Odor: Odorless
- Odor Threshold: Not applicable
- pH: Not available
- Melting Point: >500°C (932°F)
- Boiling Point: Not applicable
- Flash Point: Not applicable
- Flammability: Non-flammable
- Vapor Pressure: Not applicable
- Solubility: Slightly soluble in water
- Density: ~2.5 g/cm³

Section 10: Stability and Reactivity

Stability: Stable under recommended storage conditions.

Incompatible Materials: Acids, strong oxidizers.

Hazardous Decomposition Products: Fluoride fumes, metal oxides.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, skin, eye contact
- **Symptoms:** Irritation to respiratory system, eyes, skin
- **Chronic Effects:** Long-term exposure may cause fluorosis and lung effects

- **Carcinogenicity:** Contains crystalline silica, which is a known human carcinogen (IARC Group 1)

Section 12: Ecological Information

- **Toxicity:** Harmful to aquatic organisms in large quantities
- **Persistence and Degradability:** Not biodegradable
- **Bioaccumulative Potential:** Low
- **Mobility in Soil:** Moderate

Section 13: Disposal Considerations

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

Section 14: Transport Information

DOT: Not regulated as a hazardous material under 49 CFR.

IMDG/IATA: Not regulated.

Section 15: Regulatory Information

- **TSCA Inventory:** All ingredients are listed or exempt.
- **SARA 313:** Contains fluoride compounds subject to reporting
- **California Proposition 65:** This product contains substances known to the State of California to cause cancer.

Section 16: Other Information

Date of Issue: July 2, 2025

Revision Notes: Initial issue

Prepared By: Inweld Corporation – (800) 346-5368