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## MATERIAL SAFETY DATA SHEET

Date Prepared: March 17, 2010

Supersedes: October 12, 2009

Only in the event of an emergency involving spill, leak, fire, exposure or accident involving chemicals, call  
Chemtrec 800-424-9300

### I. PRODUCT IDENTIFICATION

**Trade Name As Labeled:** WFEI 142  
**Manufacturers Name:** Wedron Flux  
**Chemical formula:** Mixture of Inorganic Salts and Carbonates.

### II. HAZARDOUS INGREDIENTS

CAS Number	Chemical Name	ACGIH-TLV	OSHA-PEL
471-34-1	Calcium Carbonate	None Established	15 mg/m <sup>3</sup> (Total Dust) TWA 5 mg/m <sup>3</sup> (Respirable) TWA
16871-90-2	Potassium Fluorosilicate (as Fluoride)	2.5 mg/m <sup>3</sup> TWA	2.5 mg/m <sup>3</sup> TWA

### III. PHYSICAL PROPERTIES

**Vapor density:** Not known  
**Boiling point range:** Not known  
**Evaporation rate:** Not applicable  
**Melting point range:** Partially sublimates @ 186 C, partially decomposes @350 C.  
**Appearance and odor:** White, fine crystalline solid.

**Specific gravity:** Approx. 2.0  
**Solubility in water:** Soluble  
**Vapor pressure:** 1 mm @32 C

### IV. FIRE AND EXPLOSION

**Flash point:** Not listed  
**Auto ignition temperature:** None  
**Flammable limits in air:** None  
**Fire extinguishing materials:**  
water spray: XX carbon dioxide:     foam: XX dry chemical: XX other:    

**Unusual Fire Fighting Procedures:** Use NIOSH / MSHA approved SCBA in an enclosed area.  
**Unusual Fire and Explosion Hazards:** Toxic fumes containing Fluorides & Chlorides may be emitted at high temperatures, along with K<sub>2</sub>O, and SO<sub>x</sub>.

### V. HEALTH HAZARD INFORMATION

**SYMPTOMS OF OVEREXPOSURE:** Fluorides are generally highly toxic, whether swallowed, inhaled, or absorbed through the skin.)

**Inhalation:** Strong irritation of respiratory tract, burning sensation, cough  
**Skin Contact:** Contact may cause irritation or rash, particularly with moist skin.  
**Eye Contact:** Causes irritation, redness and pain.  
**Ingestion:** May cause pain, nausea, diarrhea and vomiting, abdominal cramps.  
**Chronic Health effects:** Contains Fluorides, which may cause embrittlement and densification of bones, Sclerosis, Pulmonary Fibrosis and skin rash.

**FIRST AID MEASURES:**

**Inhalation:** Move to fresh air. If breathing difficulties, give oxygen and call physician.  
**Skin contact:** Wash well with soap and water. Seek medical attention if irritation or chemical burns develop.  
**Eye contact:** Flush with running water for at least fifteen (15) minutes. Seek medical help.  
**Ingestion:** Seek medical attention immediately. Give the person water to dilute. Do not induce vomiting.  
**Suspected Cancer Agent?** No.

**HMIS:** HEALTH = 1; FLAMMABILITY = 0; REACTIVITY = 0; PHYSICAL HAZARD = 0

**NFPA RATING:** Health: 1 Flammability: 0 Reactivity: 0

**VI. REACTIVITY DATA**

**Stability:** XX Stable    Unstable

**Conditions to avoid:** Excess moisture. Keep dry.

**Incompatibility (materials to avoid):** Strong acids or acid fumes.

**Hazardous decomposition products (Including combustion products):** Portions of this material decompose on heating producing toxic and corrosive fumes including Fluorine & Chlorine along with K<sub>2</sub>O, SO<sub>x</sub>.

**Hazardous polymerization:**    May occur XX Will not occur

**Conditions to avoid:** Separate from acids, food and feedstuffs.

**VII. SPILL, LEAK, AND DISPOSAL PROCEDURES**

**Spill response procedures (including employee protection measures):** Pick up using dustless methods (vacuum). Wear respirator and protective gloves and clothing (plastic / rubberized) to avoid inhalation or skin contact.

**Waste disposal:** Follow current applicable local, state and federal regulations.

**VIII. SPECIAL HANDLING INFORMATION**

**Ventilation and Engineering Controls:** Local exhaust ventilation.  
**Respiratory Protection (type):** Use NIOSH approved respirator if TLV exceeded.  
**Eye Protection (type):** Use chemical safety goggles where dusting is possible.  
**Gloves (specify material):** PVC if material is handled.  
**Other Clothing and Equipment:** Not normally required unless contact with material might be expected.  
**Work Practices, Hygienic Practices:** Wash hands prior to eating or after physical contact. Launder contaminated clothing before wearing.  
**Other Handling and Storage Requirements:** Store in a cool, dry place away from high temperatures and acids. Protect from mechanical damage. Do not reuse container. Handle with minimum of dust generation.  
**Protective Measures During Maintenance of Contaminated Equipment:** PVC gloves or other impervious material.

**IX. TRANSPORTATION DATA**

**NOT REGULATED BY DOT**