

# SAFETY DATA SHEET

## SUPERIOR NO. 9

DATE REVISED: January 1, 2018

**Product Name:** Superior No. 9

**Manufacturer:** Superior Flux & Mfg. Co. 6615 Parkland Blvd. Cleveland, OH 44139

**Emergency Phone Number: 1-800-424-9300 (CHEMTREC)**

**Other Information Calls: (440) 349-3000**

**To the Purchaser:** This SDS contains important environmental, health, and toxicology information for your employees who have ordered this product. Please be sure this information is given to them. If you resell this product, a copy of the SDS should be given to the buyer.

**H.M.I.S. INFORMATION: HEALTH = 2      FLAMMABILITY = 0      REACTIVITY = 0**

### SECTION I - IDENTIFICATION

**Common Name:** Superior No. 9

**Chemical Family:** Back-Up Welding Powder Flux

**CAS Number:** NA

**Chemical Name:** NA

**Formula:** See below

### SECTION II – HAZARDS IDENTIFICATION

Classification of Substance or Mixture:

**Classification (CLP):** NA

**Label Elements (CLP):** NA



**Risk Phrases:** R36/37/38

**Safety Phrases:** S-26, S-27, S-36/37/39, S-45

See section XVI for full text description of S and R phrases

**Other Hazards:** None if used properly

### SECTION III- COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL
Calcium Fluoride	7789-75-5	50-70	2.5 mg/m <sup>3</sup>
Sodium Fluoride	7681-49-4	15-30	2.5 mg/m <sup>3</sup>
Boric Acid	10043-35-3	5-10	10 mg/m <sup>3</sup>
Silicon Dioxide	7631-86-9	5-10	10 mg/m <sup>3</sup>
Titanium Dioxide	1317-80-2	5-10	10 mg/m <sup>3</sup>
Manganese Dioxide	1313-13-9	1-4	5 mg/m <sup>3</sup>
Wollastonite	10101-39-0	4-6	10 mg/m <sup>3</sup>

Unlisted percentages are non-hazardous stabilizers, and water. None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.

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## SECTION IV – FIRST AID MEASURES

**Inhalation:** Remove to fresh air  
**Eyes:** Flush with water for fifteen (15) Minutes. Call physician.  
**Skin:** Wash thoroughly with soap and water.  
**Ingestion:** If patient is fully conscious, give large amounts of water. Obtain medical attention immediately.

Most Important Symptoms and effects, both acute and delayed

**Primary Routes of Entry into Body:** Fume inhalation, ingestion, skin, and eyes.

**Symptoms of Overexposure:** Salivation, coughing, choking, chills, may cause weight loss, brittle bones, anemia, and stiff joints.

**Medical Conditions Generally Aggravated by Exposure:** Any weakness of the lungs, kidneys or liver will be aggravated.

**Chemical Listed as Carcinogen or Potential Carcinogen:** None

**OSHA Permissible Exposure Limit (PEL):** 1 mg/m<sup>3</sup>

**ACGIH Threshold Limit Value (TLV):** 1 mg/m<sup>3</sup>

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## SECTION V - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** NA

**Flammable Limits:** NA

**Extinguishing Media:** Not necessary

**Auto Ignition Temperature:** None

**Special Fire Fighting Procedures:** Normal cautions when dealing with chemicals

**Unusual Fire and Explosion Hazards:** Fluorides

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## SECTION VI - ACCIDENTAL RELEASE MEASURES

**Steps to be taken in case material is spilled:** Clean up powder and flush remaining material with lots of water.

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## SECTION VII - HANDLING AND STORAGE

**Storage Requirements:** Store in plastic containers in cool area, away from heat.

**Handling Precautions:** Safe precautionary practices to avoid spills and exposure to skin and fumes.

**Other Precautions:** NA

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## SECTION VIII - CONTROL MEASURES

**Respiratory Protection (TYPE):** NIOSH approved respirator.

**Ventilation:** Yes

**Mechanical (General):** Yes

**Local Exhaust:** Yes

**Protective Gloves:** Recommended, NIOSH approved

**Other Protective Clothing or Equipment:** Rubber apron is recommended

**Eye Protection:** Safety Glasses

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## SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

**Boiling Point:** NA  
**Percent Volatile by Volume:** 0.5%  
**Vapor Pressure (mm Hg):** NA  
**Evaporation Rate (Butyl Acetate = 1):** NA  
**Vapor Density (Air = 1):** NA  
**Solubility in Water:** Sparingly Soluble  
**Melting Point:** ~1250°C/2282°F  
**Appearance and Odor:** Dark gray odorless powder  
**Reactivity in Water:** None

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## SECTION X - STABILITY AND REACTIVITY

**Stability:** Product is stable **(Conditions to Avoid):** Metals  
**Incompatibility:** Alkaline, strong oxidizing or reducing materials, cyanides or combustible materials.  
**Hazardous Decomposition Products:** HCl, zinc chloride, zinc oxide, ammonium.  
**Hazardous Polymerization:** Will not occur **(Conditions to Avoid):** Excessive heat or cold

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## SECTION XI - TOXICOLOGICAL INFORMATION

### Acute Toxicity Data

- 1) **Oral:** LD-50 (rat): Not available
- 2) **Inhalation:** LC-50 (rat): Not available
- 3) **Dermal:** LD-50 (rabbit): Not available
- 4) **Skin Irritation:** (rabbit): Not available

### Chronic Toxicity Data

- 1) **Repeated Skin Application:** (rat): Not available
- 2) **Eye Irritation:** (rabbit): Not available

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## SECTION XII - ECOLOGICAL INFORMATION

**This material has not been tested for environmental effects.**

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## SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of in accordance with EPA regulations

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## SECTION XIV- TRANSPORTATION

**D.O.T. Proper Shipping Name:** Non-Hazardous  
**Hazard Class:** NA  
**Identification Number:** NA  
**Packing Group:** NA  
**Type D.O.T Label Required Information:** NA  
**Waste Disposal Method:** Dispose of in accordance with EPA regulations

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## **SECTION XV - REGULATORY INFORMATION**

**OSHA Hazardous Chemical According to 29 CFR 1910.1200: NA**

**Carcinogenicity Classification: (Components Present at 0.1% or More)**

**International Agency for Research on Cancer (IARC): NA**

**American Conference of Governmental Industrial Hygienists (ACGIH): NA**

**National Toxicology Program (NTP): NA**

**Occupational Safety and Health Administration (OSHA): NA**

**All Components of this Product are Listed on the U.S. Toxic Substances Control Act Inventory or Otherwise Comply with TSCA Pre-manufacture Notification Requirements.**

**This product is RoHS compliant.**

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## **SECTION XVI - OTHER INFORMATION**

The labeling of this product is indicated in Section II. The full text of all abbreviations indicated by codes in the SDS are as follows:

R36	Irritating to eyes
R37	Irritating to respiratory system
R38	Irritating to skin
S-26	In case of eye contact, rinse thoroughly and get medical attention
S-27	Take off immediately contaminated clothing
S-36/37/39	Wear suitable protective clothing, gloves, and eye/face protection
S-45	In case of accident or if feel unwell call medical advice immediately

Further information:

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this material, but there are NO WARRANTIES, NO REPRESENTATIONS AND NO RESPONSIBILITY AS TO THE ACCURACY OR THE SUITABILITY OF THIS INFORMATION FOR ANY PURCHASER'S USE OR FOR ANY CONSEQUENCE TO USE.

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