



## MATERIAL SAFETY DATA SHEET

### SUPERIOR No. 10

DATE REVISED: November 11, 2003

**Product Name:** Superior No. 10

**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 MSDS 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 MSDS should be given to the buyer.

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

### SECTION I - IDENTIFICATION

**Common Name:** Superior No. 10

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

**CAS Number:** NA

**Chemical Name:** NA

**Formula:** See Below

### SECTION II - COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL
Wollastonite	10101-39-0	40-50	10 PPM
Calcium Fluoride	7789-75-5	13-16	2.5 PPM
Silicon Dioxide	7631-86-9	10-15	10 PPM
Titanium Dioxide	1317-80-2	10-15	10 PPM
Boric Acid	10043-35-3	6-10	10 PPM
Lithium Fluoride	7789-24-4	2-5	2.5 PPM
Manganese Dioxide	1313-13-9	1-4	5 PPM

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

### SECTION III - HEALTH HAZARDS

#### EMERGENCY AND FIRST AID PROCEDURES

**Eyes:** Flush with Water for 10 Minutes. Call a Physician.

**Skin:** Wash Thoroughly with Water.

**Inhalation:** Remove to Fresh Air.

**Ingestion:** If Patient is Fully Conscious, Give Large Amounts of Water. Obtain Medical Attention Immediately.

**Primary Routes of Entry:** Fume Inhalation, Ingestion, Skin, and Eyes.

**Signs and Symptoms of Exposure:**

1) **Acute Effects:** Salivation, Coughing, Choking, and Chills.

2) **Chronic Effects:** May Cause Weight Loss, Brittle Bones, Anemia, Weakness and Stiff Joints.

**Medical Conditions Generally Aggravated by Overexposure:** Any Weakness of the Lungs, Kidneys or Liver will be Aggravated.

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

**OSHA Permissible Exposure Limit (PEL):** 2.5 PPM

**ACGIH Threshold Limit Value (TLV):** 2.5 PPM

*Superior manufactures quality fluxes. Our business is solving problems.*



## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** NA  
**Extinguishing Media:** Not Necessary  
**Special Fire Fighting Procedures:** Normal Cautions when Dealing with Chemicals  
**Unusual Fire and Explosion Hazards:** Fluorides  
**Flammable Limits:** NA  
**Auto Ignition Temperature:** None

## SECTION V - ACCIDENTAL RELEASE MEASURES

**Steps to be Taken in Case Material is Spilled:** Clean up Powder and Flush Remaining Material with lots of Water.

## SECTION VI - HANDLING AND STORAGE

**Storage Requirements:** Store in Plastic Containers in Cool Area. Do Not Store in Glass or Porcelain Containers.  
**Handling Precautions:** Safe, Precautionary Practices to Avoid Spills and Exposure to Skin or Fumes.

## SECTION VII - CONTROL MEASURES

**Respiratory Protection (TYPE):** NIOSH Approved Respirator.  
**Mechanical (General):** Yes  
**Eye Protection:** Safety Goggles  
**Protective Gloves:** Recommended, NIOSH Approved  
**Other Protective Clothing or Equipment:** Rubber Apron.  
**Ventilation:** Yes  
**Local Exhaust:** Yes

## SECTION VIII - PHYSICAL AND CHEMICAL CHARACTERISTICS

**Boiling Point:** NA  
**Vapor Pressure (mm Hg):** 14  
**Vapor Density (Air = 1):** NA  
**Melting Point:** ~1250°C/2282°F  
**Reactivity in Water:** None  
**Specific Gravity (Water = 1):** NA  
**Percent Volatile by Volume:** 0.5%  
**Evaporation Rate (Butyl Acetate = 1):** NA  
**Solubility in Water:** Sparingly Soluble  
**Appearance and Odor:** Dark Gray Odorless Powder

## SECTION IX - STABILITY AND REACTIVITY

**Stability:** Product is Stable  
**Incompatibility:** Glass or Porcelain  
**Hazardous Decomposition Products:** Fluorides with High Heat.  
**Hazardous Polymerization:** Will not Occur  
**(Conditions to Avoid):** NA  
**(Conditions to Avoid):** NA

## SECTION X - TRANSPORTATION AND DISPOSAL CONSIDERATIONS

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

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