



## MATERIAL SAFETY DATA SHEET

### SUPERIOR No. 515

DATE REVISED: November 20, 2003



**Product Name:** Superior No. 515

**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. 515

**Chemical Family:** Inorganic Acid Soldering Flux

**CAS Number:** NA

**Chemical Name:** NA

**Formula:** See Below

### SECTION II - COMPOSITION INFORMATION

<u>Components</u>	<u>CAS Number</u>	<u>%</u>	<u>OSHA PEL</u>
Hydrobromic Acid	10035-10-6	4-10	3PPM
Monoethanolamine	141-43-5	2-6	3PPM

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

**Inhalation:** Remove Victim to Fresh Air

**Ingestion:** Drink Water or Milk. Call a Physician

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

**Skin:** Wash Thoroughly With Water.

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

**Symptoms of Overexposure:** Irritation of Eye, Skin, Mucous Membranes, and Acid Stomach if Ingested.

**Medical Conditions Generally Aggravated by Exposure:** None Presently Known

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

**OSHA Permissible Exposure Limit (PEL):** 3PPM

**ACCGIH Threshold Limit Value (TLV):** 5PPM

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



#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** NA **Flammable Limits in Air % By Volume:** NA  
**Extinguishing Media:** CO<sub>2</sub>, Dry Chemical **Auto Ignition Temperature:** None  
**Unusual Fire and Explosion Hazards:** Will Release Small Amounts of HBr.  
**Special Fire Fighting Procedures:** None

#### SECTION V - ACCIDENTAL RELEASE MEASURES

**Steps to be Taken in Case Material is Spilled:** First Neutralize with Soda Ash or Sodium Bicarbonate, Dilute with Water and Dispose in Accordance with EPA Regulations and Wash with Plenty of Water.

#### SECTION VI - HANDLING AND STORAGE

**Storage Requirements:** Plastic Containers in a Cool Dry Place. Away From Heat.  
**Handling Requirements:** Safe Precautionary Use to Prevent Spills and Exposure to Skin or Fumes.  
**Other Precautions:** None

#### SECTION VII - CONTROL MEASURES

**Respiratory Protection (TYPE):** NIOSH Approved Respirator. **Ventilation:** Yes  
**Mechanical (General):** Yes **Local Exhaust:** Yes  
**Eye Protection:** Safety Glasses/Goggles  
**Protective Gloves:** Recommended, NIOSH Approved  
**Other Protective Clothing or Equipment:** Optional to User's Preference.

#### SECTION VIII - PHYSICAL AND CHEMICAL CHARACTERISTICS

**Boiling Point:** ~104°C/220°F **Specific Gravity (Water = 1):** 1.06  
**Vapor Pressure (mmHg):** Nil **Percent Volatile By Volume:** 88%  
**Vapor Density (Air = 1):** NA **Evaporation Rate (Butyl acetate = 1):** 0.9  
**Melting Point:** ~0°C/32°F **Solubility in Water:** Unlimited  
**Reactivity in Water:** None **Appearance and Odor:** Pink, Odorless Liquid

#### SECTION IX - STABILITY AND REACTIVITY

**Stability:** Product is Stable **Conditions to Avoid:** None  
**Hazardous Polymerization:** None **Conditions to Avoid:** None  
**Incompatibility:** Oxidizing Agents and Metals.  
**Hazardous Decomposition Products:** Hydrobromides, Nitrogen Products, CO, CO<sub>2</sub>

#### SECTION X - TRANSPORTATION AND DISPOSAL CONSIDERATIONS

**D.O.T. Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic NOS(Contains Hydrobromic Acid)  
**Hazard Class:** 8 **Identification Number:** UN3264 **Packing Group:** III  
**Type D.O.T Label Required Information:** Corrosive  
**Waste Disposal Method:** Dispose in Accordance with EPA Regulations.

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