



MATERIAL SAFETY DATA SHEET

SUPERIOR No. 510

DATE REVISED: November 20, 2003



Product Name: Superior No. 510

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 - IDENTITY

Common Name: Superior No. 510

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	10-15	3PPM
Monoethanolamine	141-43-5	5-12	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: CO₂, 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):** 1.22
Vapor Pressure (mmHg): Nil **Percent Volatile By Volume:** 27%
Vapor Density (Air = 1): NA **Evaporation Rate (Butyl acetate = 1):** NA
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:** Extreme Heat
Incompatibility: Oxidizing Agents and Metals.
Hazardous Decomposition Products: Hydrobromides, Nitrogen Products, CO, CO₂

SECTION X - TRANSPORTATION AND DISPOSAL CONSIDERATIONS

D.O.T. Proper Shipping Name: Hydrobromic Acid Solution **Hazard Class:** 8
Identification Number: UN1788 **Packing Group:** III
Type D.O.T Label Required Information: Corrosive
Waste Disposal Method: Dispose in Accordance with EPA Regulations.

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