

MATERIAL SAFETY DATA SHEET

SUPERIOR NO. 515

DATE REVISED: January 1, 2014

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: Chloride free inorganic acid flux

CAS Number: NA

Chemical Name: NA

Formula: See below

SECTION II - COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL
Hydrobromic Acid	10035-10-6	4-10	3 mg/m ³
Monoethanolamine	141-43-5	2-6	3 mg/m ³

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

SECTION III - HEALTH HAZARDS

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): 3 mg/m³

ACCGIH Threshold Limit Value (TLV): 5 mg/m³

SECTION IV - 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.

SECTION V - 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 VI - 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 VII - 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 VIII - 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 IX - 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 X - 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, CO₂

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.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with EPA regulations

SECTION XIV- TRANSPORTATION

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.

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.

SECTION XVI - OTHER INFORMATION

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