



MATERIAL SAFETY DATA SHEET

SUPERIOR No. 155

DATE REVISED: November 11, 2003



Product Name: Superior No. 155

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 = 3** **REACTIVITY = 0**

SECTION I - IDENTIFICATION

Common Name: Superior No. 155

Chemical Family: Battery 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>
Isobutanol	78-33-1	38-48	50PPM
Hydrobromic Acid	10035-10-6	20-30	3PPM
Phosphoric Acid	7664-38-2	4-8	3PPM
Monoethanolamine	141-43-5	4-8	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. Give Artificial Respiration if not Breathing.

Ingestion: Do Not Induce Vomiting. Rinse Mouth; Give Large Quantities of Water to Dilute the Material. Get Medical Attention Immediately.

Eyes: Flush with Water for 15 Minutes. Call a Physician.

Skin: Remove Contaminated Clothing, Flush Skin With Plenty of Water for at Least 15 Minutes.

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: 295°C

Flammable Limits: Lower 2, Upper 12.7

Extinguishing Media: Water, CO₂, Dry Chemical

Auto Ignition Temperature: None

Unusual Fire and Explosion Hazards: Will Release Small Amounts of HBr.

Special Fire Fighting Procedures: Flammable Liquid and Vapors May Travel Great Distances to Ignition Source and Flash Back.

SECTION V - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Spilled: Soak Up With Absorbent, Eliminate Source of Ignition. Remove Residue With Detergent and Water.

SECTION VI - HANDLING AND STORAGE

Storage Requirements: Store in a Cool Dry Place. Keep Container Closed When Not in Use. Handle as a Flammable/Corrosive Liquid.

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 Chemical Cartridge Respirator Required if TLV's are Exceeded.

Ventilation: Yes

Mechanical (General): Yes

Local Exhaust: Yes

Eye Protection: Wear Splash Goggles or Full Face Shield.

Protective Gloves: Wear Rubber Gloves if There is a Danger of Skin Contact.

Other Protective Clothing or Equipment: Optional to User's Preference.

SECTION VIII - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: 465°F

Specific Gravity (Water = 1): 1.05

Vapor Pressure (mmHg): <0.05mmHg @25°C

Percent Volatile By Volume: 92%

Vapor Density (Air = 1): NA

Evaporation Rate (Butyl acetate = 1): >2

Melting Point: N/A

Solubility in Water: Complete

Reactivity in Water: None

Appearance and Odor: Clear Light Red, Alcoholic Odor

SECTION IX - STABILITY AND REACTIVITY

Stability: Product is Stable

Conditions to Avoid: Sparks Open Flame or Heat.

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: None

Incompatibility: Oxidizing Agents and Metals.

Hazardous Decomposition Products: Carbon Dioxide, and Carbon Monoxide.

SECTION X - TRANSPORTATION AND DISPOSAL CONSIDERATIONS

D.O.T. Proper Shipping Name: Flammable Liquid

Hazard Class: 3

Identification Number: UN1212

Packing Group: III

Type D.O.T Label Required Information: Flammable Liquid

Waste Disposal Method: Incinerate or Dispose of Per Federal, State, or Local Regulations.

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Superior manufactures quality fluxes. Our business is solving problems.



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