



## MATERIAL SAFETY DATA SHEET

### SUPERIOR No. 40MM4

DATE REVISED: November 12, 2003



**Product Name:** Superior No. 40MM4  
**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 = 1      FLAMMABILITY = 0      REACTIVITY = 0**

### SECTION I - IDENTIFICATION

**Common Name:** Superior No. 40MM4      **Chemical Family:** Organic 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>
Glutamic Acid Hydrochloride	138-15-8	2-8	N/A

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 or Administer Oxygen. Call Physician.  
**Ingestion:** Give Water or Milk. Get Medical Attention.

**Primary Routes of Entry:** Fume Inhalation, Ingestion, Skin, and Eyes.  
**Symptoms of Overexposure:** No Specific Information Available.  
**Medical Conditions Generally Aggravated by Overexposure:** None Presently Known.  
**Chemical Listed as a Carcinogen or Potential Carcinogen:** None  
**OSHA Permissible Exposure Limit (PEL):** N/A  
**ACGIH Threshold Limit Value (TLV):** N/A

*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:** Will Release Small Amounts of HCl.

**Flammable Limits:** NA  
**Auto Ignition Temperature:** 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 of in Accordance with EPA Regulations and Wash with Plenty of Water.

## SECTION VI - HANDLING AND STORAGE

**Storage Requirements:** Store in Plastic Containers in Cool Area, Away From Heat.  
**Handling Precautions:** Safe Precautionary Practices to Avoid Spills and Exposure to Skin and Fumes.

## SECTION VII - CONTROL MEASURES

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

**Ventilation:** Yes  
**Local Exhaust:** Yes

## SECTION VIII - PHYSICAL AND CHEMICAL CHARACTERISTICS

**Boiling Point:** 104°C/220°F  
**Vapor Pressure (mm Hg):** NA  
**Vapor Density (Air = 1):** NA  
**Melting Point:** 0°C/32°F  
**Reactivity in Water:** None

**Specific Gravity (Water = 1):** 1.05  
**Percent Volatile by Volume:** 85%  
**Evaporation Rate (Butyl Acetate = 1):** 0.9  
**Solubility in Water:** Unlimited  
**Appearance and Odor:** Clear odorless liquid.

## SECTION IX - STABILITY AND REACTIVITY

**Stability:** Product is Stable  
**Incompatibility:** Strong Oxidizers, Metals.  
**Hazardous Decomposition Products:** Small Amounts of HCl.  
**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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