

# SAFETY DATA SHEET

## SUPERIOR NO. 40MM4

DATE REVISED: January 1, 2016

**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 Water Soluble Flux

**CAS Number:** NA

**Chemical Name:** NA

**Formula:** See Below

### SECTION II – HAZARDS IDENTIFICATION

Classification of Substance or Mixture:

**Classification (CLP):** No Data Available

**Label Elements (CLP):** No Data Available



Irritant

**Precautionary Statements:** P280, P305+P351+P338, P310

**Risk Phrases:** R41

**Safety Phrases:** S36, S39

See section XVI for full text description of S and R phrases

**Other Hazards:** None if used properly

### SECTION III- COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL	H Statements
Glutamic Acid Hydrochloride	138-15-8	2-8	NA	H318

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.

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## SECTION IV- HEALTH HAZARDS

**Primary Routes of Entry:** Fume inhalation, ingestion, skin, and eyes.

**Signs and Symptoms of Exposure:**

1) **Acute Effects:** Reddening of eyes and skin, acid stomach if ingested, inhalation may cause respiratory tract irritation.

2) **Chronic Effects:** 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):** 5 mg/m<sup>3</sup>

**ACGIH Threshold Limit Value (TLV):** 5 mg/m<sup>3</sup>

## 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 a physician.

**Ingestion:** If patient is fully conscious, give two glasses of water. Obtain medical attention immediately.

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## SECTION V - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** NA

**Flammable Limits:** NA

**Extinguishing Media:** Not necessary

**Auto Ignition Temperature:** None

**Special Fire Fighting Procedures:** Normal cautions when dealing with chemicals

**Unusual Fire and Explosion Hazards:** Will release small amounts of HCl.

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## 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 of in accordance with EPA regulations. Wash spill area with plenty of water.

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## SECTION VII - 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 or fumes.

**Other Precautions:** None

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## SECTION VIII - CONTROL MEASURES

**Respiratory Protection (TYPE):** Adequate ventilation and air removal from solder area is required. If working in inadequate ventilation area, wear NIOSH approved respirators.

**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 preference

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## SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

**Boiling Point:** 104°C/220°F

**Specific Gravity (Water = 1):** 1.05

**Vapor Pressure (mm Hg):** NA

**Percent Volatile by Volume:** 85%

**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:** Clear odorless liquid

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## SECTION X - STABILITY AND REACTIVITY

**Stability:** Product is Stable

**(Conditions to Avoid):** NA

**Incompatibility:** Strong Oxidizers, Metals.

**Hazardous Decomposition Products:** Small Amounts of HCl.

**Hazardous Polymerization:** Will Not Occur

**(Conditions to Avoid):** NA

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## 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.**

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## SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of in accordance with EPA regulations.

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## SECTION XIV- TRANSPORTATION

**D.O.T. Proper Shipping Name:** Non-hazardous

**Identification Number:** NA

**Hazard Class:** NA

**Type D.O.T Label Required Information:** NA

**Packing Group:** NA

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## SECTION XV - REGULATORY INFORMATION

**OSHA Hazardous Chemical According to 29 CFR 1910.1200:** None

**Carcinogenicity Classification (Components Present at 0.1% or More):** Non-Carcinogenic

**International Agency for Research on Cancer (IARC):** Not Listed

**American Conference of Governmental Industrial Hygienists (ACGIH):** Not Listed

**National Toxicology Program (NTP):** Not Listed

**Occupational Safety and Health Administration (OSHA):** Not Listed

**None of the 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.**

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## SECTION XVI - OTHER INFORMATION

The labeling of this product is indicated in Section II. The full text of all abbreviations indicated by codes in the MSDS are as follows:

R41	Risk of serious damage to eyes
S-36/39	Wear suitable protective clothing and eye/face protection
H318	Causes serious eye damage
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor

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