



**MATERIAL SAFETY DATA SHEET**  
**SUPERIOR No. 78 Gel**

DATE REVISED: January 1, 2009



**Product Name:** Superior No. 78

**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 = 3      FLAMMABILITY = 0      REACTIVITY = 0**

**SECTION I - IDENTIFICATION**

**Common Name:** Superior No. 78

**Chemical Family:** Inorganic Acid Soldering Gel 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>
Ammonium Chloride	12125-02-9	4-10	NA
Hydrochloric Acid	7647-01-0	2-8	5PPM
Zinc Chloride	7646-85-7	25-40	1PPM

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:** Pulmonary Edema, Abdominal Pain, Vomiting, Eye Damage and Skin Burn.

**Medical Conditions Generally Aggravated by Overexposure:** None Presently Known.

**Chemical Listed as a Carcinogen or Potential Carcinogen:** None

**OSHA Permissible Exposure Limit (PEL):** 1 PPM

**ACGIH Threshold Limit Value (TLV):** 1 PPM

*Superior manufactures quality fluxes. Our business is solving problems.*



**Superior Flux  
& Mfg. Co.**

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#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** NA

**Flammable Limits:** NA

**Extinguishing Media:** Dry Chemical, CO<sub>2</sub> Foam

**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 upon Decomposition.

#### 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.

#### 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.

**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):** 1.30

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

**Percent Volatile by Volume:** 64%

**Vapor Density (Air = 1):** NA

**Evaporation Rate (Butyl Acetate = 1):** 0.6

**Melting Point:** 0°C/32°F

**Solubility in Water:** Unlimited

**Reactivity in Water:** None

**Appearance and Odor:** Yellow/Green Gel

#### SECTION IX - STABILITY AND REACTIVITY

**Stability:** Product is Stable

**(Conditions to Avoid):** Metals

**Incompatibility:** Alkaline, Strong Oxidizing or Reducing Materials, Cyanides or Combustible Materials.

**Hazardous Decomposition Products:** HCl, Zinc Chloride, Zinc Oxide, Ammonium.

**Hazardous Polymerization:** Will Not Occur **(Conditions to Avoid):** Excessive Heat or Cold

#### SECTION X - TRANSPORTATION AND DISPOSAL CONSIDERATIONS

**D.O.T. Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, N.O.S.

(Contains Zinc Chloride, Hydrochloric Acid)

**Hazard Class:** 8

**Identification Number:** UN3264

**Packing Group:** III

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

**Waste Disposal Method:** Dispose of in Accordance with EPA Regulations

**This Product is RoHS Compliant.**

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*Superior manufactures quality fluxes. Our business is solving problems.*



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