SAFETY DATA SHEET
SUPERIOR NO. 75 PASTE
DATE REVISED: January 1, 2018

Product Name: Superior No. Superior 75 Paste
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 75 Paste
Chemical Family: Stainless Steel Soldering Flux
CAS Number: NA
Chemical Name: NA
Formula: See below

SECTION II – HAZARDS IDENTIFICATION
Classification of Substance or Mixture:
Classification (CLP): Corrosive
Label Elements (CLP): Corrosive

Risk Phrases: R36/37/38, R34
Safety Phrases: S-26, S-27, S-36/37/39, S-45, S18, S61, S62, S64
See section XVI for full text description of S and R phrases
Other Hazards: None if used properly

SECTION III- COMPOSITION INFORMATION

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>%</th>
<th>OSHA PEL</th>
<th>H Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Chloride</td>
<td>12125-02-9</td>
<td>2-8</td>
<td>NA</td>
<td>H302, H319, H401</td>
</tr>
<tr>
<td>Hydrochloric Acid</td>
<td>7647-01-0</td>
<td>1-8</td>
<td>5 mg/m³</td>
<td>H314, H335</td>
</tr>
<tr>
<td>Zinc Chloride</td>
<td>7646-85-7</td>
<td>15-25</td>
<td>1 mg/m³</td>
<td>H302, H314, H319, H335, H400, H401</td>
</tr>
</tbody>
</table>

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 IV – FIRST AID MEASURES

**Inhalation:** Remove to fresh air
**Eyes:** Flush with water for fifteen (15) Minutes. Call physician.
**Skin:** Wash thoroughly with soap and water.
**Ingestion:** If patient is fully conscious, give large amounts of water. Obtain medical attention immediately.

Most Important Symptoms and effects, both acute and delayed

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

**Symptoms of Overexposure:** Salivation, coughing, choking, chills, may cause weight loss, brittle bones, anemia, and stiff joints.

**Medical Conditions Generally Aggravated by Exposure:** Any weakness of the lungs, kidneys or liver will be aggravated.

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

**OSHA Permissible Exposure Limit (PEL):** NA

**ACGIH Threshold Limit Value (TLV):** NA

SECTION V - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** NA

**Flammable Limits:** NA

**Extinguishing Media:** Dry chemical, CO₂ 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 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.

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 and fumes.

**Other Precautions:** NA

SECTION VIII - CONTROL MEASURES

**Respiratory Protection (TYPE):** NIOSH approved respirator.

**Ventilation:** Yes

**Mechanical (General):** Explosion proof

**Local Exhaust:** Yes

**Protective Gloves:** Recommended, NIOSH approved

**Other Protective Clothing or Equipment:** Rubber apron is recommended.

**Eye Protection:** Safety Glasses

**Regulatory Information:** The chemical components are listed on TSCA and DSL inventory. See composition section ii for CAS numbers
SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: 104°C/220°F
Specific Gravity (Water = 1): 1.50
Vapor Pressure (mm Hg): NA
VOC Content: 0%
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: White odorless paste

SECTION X - 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 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

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, 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
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
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
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:

R34  Causes burns
R36  Irritating to eyes
R37  Irritating to respiratory system
R38  Irritating to skin

S-18  Handle and open container with care
S-26  In case of eye contact, rinse thoroughly and get medical attention
S-27  Take off immediately contaminated clothing
S-36/37/39  Wear suitable protective clothing, gloves, and eye/face protection
S-45  In case of accident or if feel unwell call medical advice immediately
S61  Avoid release to the environment. Refer to special instructions/safety data sheet
S62  If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible
S64  If swallowed, rinse mouth with water (only if the person is conscious)

P264  Wash … thoroughly after handling
P270  Do not eat, drink or smoke when using this product
P273  Avoid release to the environment
P280  Wear protective gloves/protective clothing/eye protection/face protection
P301+P312  IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
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
P330  Rinse mouth
P337+P313  If eye irritation persists get medical advice/attention
P301+P330+P331  IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P304+P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P309+P311  IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
</tbody>
</table>

Further information:  
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