SAFETY DATA SHEET
SUPERIOR NO. 70
DATE REVISED: January 1, 2016

Product Name: Superior No. 70
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 = 1  REACTIVITY = 1

SECTION I - IDENTIFICATION

Common Name: Superior No. 70
Chemical Family: Soft Soldering Flux
CAS Number: NA
Chemical Name: NA
Formula: See below

SECTION II – HAZARDS IDENTIFICATION

Classification of Substance or Mixture:

Classification (CLP): NA
Label Elements (CLP): NA

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>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:** 282°C/540°F  
**Flammable Limits:** NA  
**Extinguishing Media:** Dry chemical, CO₂ foam  
**Auto Ignition Temperature:** NA  
**Special Fire Fighting Procedures:** Wear self contained breathing apparatus and protective clothing.  
**Unusual Fire and Explosion Hazards:** Will not occur

SECTION VI - ACCIDENTAL RELEASE MEASURES

**Steps to be Taken in Case Material is Spilled:** Clean up 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>337°C/639°F</td>
</tr>
<tr>
<td>Specific Gravity (Water = 1)</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>NA</td>
</tr>
<tr>
<td>Percent Volatile by Volume</td>
<td>8%</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>&gt;1</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>NA</td>
</tr>
<tr>
<td>Melting Point</td>
<td>NA</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Reactivity in Water</td>
<td>None</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Yellow Paste</td>
</tr>
</tbody>
</table>

SECTION X - STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Product is stable</td>
</tr>
<tr>
<td>Incompatibility</td>
<td>Alkaline, strong oxidizing or reducing materials, cyanides or combustible materials.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>HCl, zinc chloride, zinc oxide, ammonium.</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Will not occur</td>
</tr>
<tr>
<td>(Conditions to Avoid)</td>
<td>Metals</td>
</tr>
<tr>
<td>(Conditions to Avoid)</td>
<td>Excessive heat or cold</td>
</tr>
</tbody>
</table>

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: NA  
Hazard Class: NA  
Identification Number: NA  
Packing Group: NA  
Type D.O.T Label Required Information: NA

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  
National Toxicology Program (NTP): 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  
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

H302 Harmful if swallowed
H319 Causes serious eye irritation
H401 Toxic to aquatic life
H314 Causes severe skin burns and eye damage
H335 May cause respiratory irritation
H400 Very toxic to aquatic life

Further information:
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