SAFETY DATA SHEET
SUPERIOR NO. 85
DATE REVISED: January 1, 2018

Product Name: Superior No. Superior 85
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 = 3 REACTIVITY = 0

SECTION I - IDENTIFICATION

Common Name: Superior 85
Chemical Family: Wave Soldering Foam 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

Precautionary Statements: P210, P280, P303+361+353IF
Risk Phrases: R11, R36, R67
Safety Phrases: S2, S7, S16, S24/25, S-26
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>Isopropanol</td>
<td>67-63-0</td>
<td>85-95</td>
<td>400 PPM</td>
<td>H225, H302, H305,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H320, H332, H336</td>
</tr>
<tr>
<td>DMA-HCL</td>
<td>506-59-2</td>
<td>3-6</td>
<td>10 mg/m³</td>
<td>NA</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 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:** 18.3°C/65°F

**Flammable Limits:** Lower-2 Upper-12

**Extinguishing Media:** Dry chemical, CO₂

**Auto Ignition Temperature:** 398.9°C/750°F

**Special Fire Fighting Procedures:** Wear protective clothing, including NIOSH approved self-contained breathing apparatus

**Unusual Fire and Explosion Hazards:** Flammable, do not mix with strong oxidizing or dehydrating agents. Do not store in presence of oxidizing agents.

SECTION VI - ACCIDENTAL RELEASE MEASURES

**Steps to be Taken in Case Material is Spilled:** Absorb with sawdust and remove in accordance to EPA regulations.

SECTION VII - HANDLING AND STORAGE

**Storage Requirements:** Store in plastic containers in cool area. Do not store in glass containers.

**Handling Precautions:** Safe precautionary practices.

**Other Precautions:** Keep away from electrical sparks, heat, open flame or oxidizing agents.

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: 82°C/171°F
Specific Gravity (Water = 1): 0.810 @ 25°C
Vapor Pressure (mm Hg): 31
Percent Volatile by Volume: 88%
Vapor Density (Air = 1): 2.3
Evaporation Rate (Butyl Acetate = 1): NA
Melting Point: NA
Solubility in Water: Unlimited
Reactivity in Water: None
Appearance and Odor: Clear liquid, alcohol odor

SECTION X - STABILITY AND REACTIVITY

Stability: Product is stable  (Conditions to Avoid): Avoid heat sparks and open flames
Incompatibility: Strong oxidizers.
Hazardous Decomposition Products: CO.
Hazardous Polymerization: NA

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: Isopropanol
Hazard Class: 3
Identification Number: UN1219
Packing Group: II
Type D.O.T Label Required Information: Flammable Liquid
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:

R11  Highly flammable
R36  Irritating to eyes
R67  Irritating to respiratory system

S-2  Keep out of the reach of children
S-7  Keep container tightly closed
S-16  Keep away from sources of ignition - No smoking
S-24/25  Avoid contact with skin and eyes
S-26  In case of eye contact, rinse thoroughly and get medical attention

H225  Highly flammable liquid and vapour
H302  Harmful if swallowed
H305  May be harmful if swallowed and enters airways
H320  Causes eye irritation
H332  Harmful if inhaled

P210  Keep away from heat/sparks/open flames/hot surfaces – No smoking
P280  Wear protective gloves/protective clothing/eye protection/face protection
P303+361+351F ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Further information:
Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this material, but there are NO WARRANTIES, NO REPRESENTATIONS AND NO RESPONSIBILITY AS TO THE ACCURACY OR THE SUITABILITY OF THIS INFORMATION FOR ANY PURCHASER'S USE OR FOR ANY CONSEQUENCE TO USE.