SAFETY DATA SHEET
SUPERIOR NO. 625
DATE REVISED: January 1, 2016

Product Name: Superior No. 625
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:**

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**SECTION I -- IDENTIFICATION**

Common Name: Superior No. 625
Chemical Family: Aluminum Bronze Brazing Paste 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
Signal Word: Danger

![Irritant Health hazard]

Risk Phrases: R62, R25, R36/37/38, R60/61
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>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Fluorohydroborate</td>
<td>12228-71-6</td>
<td>5-20</td>
<td>2.5 mg/m³</td>
</tr>
<tr>
<td>Potassium Tetraborate</td>
<td>1332-77-0</td>
<td>15-25</td>
<td>5.0 mg/m³</td>
</tr>
<tr>
<td>Boric Acid</td>
<td>10043-35-3</td>
<td>15-30</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Potassium Fluoborate</td>
<td>14075-53-7</td>
<td>7-15</td>
<td>2.5 mg/m³</td>
</tr>
<tr>
<td>Lithium Chloride</td>
<td>7447-41-8</td>
<td>2-5</td>
<td>5 mg/m³</td>
</tr>
</tbody>
</table>

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
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): 2.5 mg/m$^3$
ACGIH Threshold Limit Value (TLV): 2.5 mg/m$^3$

SECTION V - FIRE AND EXPLOSION HAZARD DATA

Flash Point: (Method Used): None
Flammable Limits: Lower-NA, Upper-NA
Extinguishing Media: Not Needed
Auto Ignition Temperature: None
Special Fire Fighting Procedures: Normal caution when using chemicals.
Unusual Fire and Explosion Hazards: Fluorides

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be taken in Case Material is spilled: Clean up paste and flush remaining material with lots of water.

SECTION VII - HANDLING AND STORAGE

Precautions to be Taken in Handling and Storage: Store in plastic containers in cool area. Do not store in glass or porcelain container. Wash thoroughly after use.
Work/Hygienic Practices: Avoid contact with skin, eyes and clothing.
Other Precautions: Keep container away from excessive heat.

SECTION VIII - CONTROL MEASURES

Ventilation: Yes
Local Exhaust: Yes
Eye Protection: Safety Goggles
Protective Gloves: Recommend, NIOSH approved
Mechanical (General): Yes
Respiratory Protection (Type): NIOSH approved respirator.
Other Protective Clothing or Equipment: Rubber apron
SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: NA
Specific Gravity (Water = 1): 1.6
Vapor Pressure (mm Hg): NA
Percent Volatile by Volume: 30%
Vapor Density (Air = 1): NA
Evaporation Rate (Butyl Acetate = 1): 0.3
Melting Point: 500 °C
Solubility in Water: Moderate
Reactivity in Water: None
Appearance and Odor: White odorless paste

SECTION X - STABILITY AND REACTIVITY

Stability: Product is stable (Conditions to Avoid): Excess heat
Incompatibility: Glass or porcelain
Hazardous Decomposition Products: Fluorides with high heat.
Hazardous Polymerization: Will not occur (Conditions to Avoid): 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: Non-Hazardous
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: 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.

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:

R25  Toxic if swallowed
R36  Irritating to eyes
R37  Irritating to respiratory system
R38  Irritating to skin
R60/61 May cause infertility/May cause harm to unborn child
R62  Possible risk of impaired fertility

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

H361f  Suspected of damaging fertility

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.