SAFETY DATA SHEET
SUPERIOR NO. 28 Liquid
DATE REVISED: January 1, 2017

Product Name: Superior No. Superior 28 Liquid
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 SDS 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 SDS should be given to the buyer.

H.M.I.S. INFORMATION: HEALTH = 1  FLAMMABILITY = 0  REACTIVITY = 0

SECTION I - IDENTIFICATION

Common Name: Superior 28 Liquid
Chemical Family: Silver Brazing Liquid 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

Signal Word: Danger

Precautionary Phrases: P280, P308+P313, P264, P305+P351+P338, P273
See section XVI for full text description of H and P 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>Boric Acid</td>
<td>10043-35-3</td>
<td>7-18</td>
<td>10 mg/m³</td>
<td>H360</td>
</tr>
<tr>
<td>Sodium Tetraborate</td>
<td>1303-96-4</td>
<td>10-25</td>
<td>10 mg/m³</td>
<td>H319, H360, H402</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
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): 10 mg/m³
ACGIH Threshold Limit Value (TLV): 10 mg/m³

SECTION V - FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA
Flammable Limits: NA
Extinguishing Media: Not needed
Auto Ignition Temperature: None
Special Fire Fighting Procedures: Normal cautions when dealing with chemicals.
Unusual Fire and Explosion Hazards: Will release boric oxide fumes with high heat.

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): Yes
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: 102°C/216°F
Specific Gravity (Water = 1): 1.09
Vapor Pressure (mm Hg): NA
Percent Volatile by Volume: 0%
Vapor Density (Air = 1): NA
Evaporation Rate (Butyl Acetate = 1): NA
Melting Point: 0°C/32°F
Solubility in Water: Unlimited
Reactivity in Water: None
Appearance and Odor: Slightly Hazy, Colorless Liquid

SECTION X - STABILITY AND REACTIVITY
Stability: Product is stable
(Conditions to Avoid): Metals
Incompatibility: Porcelain or glass
Hazardous Decomposition Products: Boric oxide fumes
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: 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: 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 SDS are as follows:

P280      Wear protective gloves/protective clothing/eye protection/face protection
P208 + P313 If exposed or concerned: Get medical advice/attention.
P264      Wash skin thoroughly after handling
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P273      Avoid release to the environment
H319      Causes serious eye irritation
H360      May damage fertility or the unborn child
H402      Harmful to aquatic life

Further information:
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