MATERIAL SAFETY DATA SHEET
SUPERIOR NO. 530
DATE REVISED: January 1, 2017

Product Name: Superior No. 530
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.

SECTION I - IDENTIFICATION

Common Name: Superior No. 530
Chemical Family: 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): No Data Available

Corrosive

Risk Phrases: R34, R37
Safety Phrases: S26, S36/37/39, S45
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>EC No.</th>
<th>%</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrobromic Acid</td>
<td>10035-10-6</td>
<td>233-113-0</td>
<td>10-15</td>
<td>3 mg/m³</td>
</tr>
</tbody>
</table>

Unlisted percentages are non-hazardous stabilizers, activators, and water. None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.
SECTION IV - HEALTH HAZARDS
Primary Routes of Entry: Fume inhalation, ingestion, skin, and eyes.
Signs and Symptoms of Exposure:
  1) Acute Effects: Reddening of eyes and skin, acid stomach if ingested, inhalation may cause 
     respiratory tract irritation.
  2) Chronic Effects: No specific information available
Medical Conditions Generally Aggravated by Overexposure: None presently known.
Chemical Listed as a Carcinogen or Potential Carcinogen: None
OSHA Permissible Exposure Limit (PEL): 5 mg/m³
ACGIH Threshold Limit Value (TLV): 5 mg/m³

EMERGENCY AND FIRST AID PROCEDURES
Eyes:          Flush with water for 10 minutes. Call a physician.
Skin:          Wash thoroughly with water.
Inhalation:    Remove to fresh air or administer oxygen. Call a physician.
Ingestion:     If patient is fully conscious, give two glasses of water. Obtain medical attention 
                immediately.

SECTION V - FIRE AND EXPLOSION HAZARD DATA
Flash Point:    NA
Flammable Limits in Air % By Volume:  NA
Extinguishing Media: CO₂, dry chemical
Auto Ignition Temperature: None
Unusual Fire and Explosion Hazards: Will release small amounts of HBr.
Special Fire Fighting Procedures: None

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 in accordance with EPA regulations and wash with plenty of water.

SECTION VII - HANDLING AND STORAGE
Storage Requirements: Plastic containers in a cool dry place. Away from heat.
Handling Requirements: Safe precautionary use to prevent spills and exposure to skin or fumes.
Other Precautions: None

SECTION VIII - CONTROL MEASURES
Respiratory Protection (TYPE): NIOSH approved respirator.
Ventilation: Yes  
Mechanical (General): Yes  
Local Exhaust: Yes  
Eye Protection: Safety glasses/goggles  
Protective Gloves: Recommended, NIOSH approved  
Other Protective Clothing or Equipment: Optional to user’s preference

SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: ~104°C/220°F  
Specific Gravity (Water = 1): 1.032  
Vapor Pressure (mmHg): Nil  
Percent Volatile By Volume: 93%  
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: Red clear liquid

SECTION X - STABILITY AND REACTIVITY

Stability: Product is stable  
Conditions to Avoid: None  
Hazardous Polymerization: None  
Conditions to Avoid: None  
Incompatibility: Oxidizing agents and metals.  
Hazardous Decomposition Products: Hydrobromides, nitrogen products, CO, CO₂

SECTION XI - TOXICOLOGICAL INFORMATION

Acute Toxicity Data
1) Oral: LD₅₀ (rat): Not available  
2) Inhalation: LC₅₀ (rat): Not available  
3) Dermal: LD₅₀ (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 NOS (contains hydrobromic acid)

**Hazard Class:** 8

**Identification Number:** UN3264

**Packing Group:** III

**Type D.O.T Label Required Information:** Corrosive

**Waste Disposal Method:** Dispose in accordance with EPA regulations

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**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. This Product is RoHS Compliant.

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**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
- **R37** Irritating to respiratory system
- **S-26** In case of contact with eyes rinse immediately with water and seek medical attention
- **S-36/37/39** Wear suitable protective clothing, gloves, and eye/face protection

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