SAFETY DATA SHEET
SUPERIOR No. 1260
DATE REVISED: January 1, 2016

Product Name: Superior No. 1260
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. 1260
Relevant Identified Uses: Soldering Flux for Aluminum
Chemical Family: Aluminum paste flux
CAS Number: NA
Chemical Name: NA
Formula: See below

SECTION II – HAZARDS IDENTIFICATION
Classification of Substance or Mixture:
Classification (CLP): No Data Available
Label Elements (CLP): C – Corrosive

Risk Phrases: R61, R62, R34, R43, R36/37/38, R50/53
Safety Phrases: S-26, S-36/37/39, S-45
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>
<th>Classifications (1272/2008)</th>
<th>Classification(1999/45)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aminoethyl ethanolamine</td>
<td>111-41-1</td>
<td>203-867-5</td>
<td>20-29</td>
<td>NA</td>
<td>H360Fd, H361, H314, H317, H335</td>
<td>T R61/34/36/38</td>
</tr>
<tr>
<td>Ammonium Fluoborate</td>
<td>13826-83-0</td>
<td>237-531-4</td>
<td>15-29</td>
<td>2.5 mg/m³</td>
<td>H302, H312, H332, H319</td>
<td>C R34, C≥10% Xi, R36/37/38</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>1314-13-2</td>
<td>215-222-5</td>
<td>5-15</td>
<td>5.0 mg/m³</td>
<td>H400-Acute 1, H410-Chronic 2</td>
<td>Xn-R22, Xi-R36/37/38</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>203-049-8</td>
<td>20-29</td>
<td>NA</td>
<td>NA</td>
<td>N-R50/53</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. See section XVI for full text description of S and R phrases, H statements, and classification.
SECTION IV - FIRST AID MEASURES
Description of First Aid Measures
Eyes: Flush with water for 15 minutes. Call a physician.
Skin: Wash thoroughly with soap and water. If rash develops call a physician.
Inhalation: Remove to fresh air or administer oxygen. Call physician.
Ingestion: Get medical attention immediately.

Most Important Symptoms and effects, both acute and delayed
Primary Routes of Entry: Fume inhalation, ingestion, skin, and eyes.
Symptoms of Overexposure: Eye and skin burns, damage to digestive and respiratory system, abdominal pain, vomiting and effects central nervous system.
Medical Conditions Generally Aggravated by Overexposure: Lung and skin disorders.
Chemical Listed as a 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: >135 C/275°F
Flammable Limits: Lower-1.5, Upper-10.0
Extinguishing Media: Water, fog, foam or dry chemical
Auto Ignition Temperature: None
Special Fire Fighting Procedures: Full protective equipment required. ammonia, boron oxide, or fluoride fumes may be released.
Unusual Fire and Explosion Hazards: Decomposition may produce NO$_2$ fumes. Hydrofluoric acid solution may be formed within water run-off.

SECTION VI - ACCIDENTAL RELEASE MEASURES
Steps to be taken in case material is spilled: Contain, absorb, sweep-up and dispose.

SECTION VII - HANDLING AND STORAGE
Storage Requirements: Store in plastic containers in cool area, away from heat.
Handling Precautions: Wash hands thoroughly after handling. Safe precautionary practices to avoid spills and exposure to skin and fumes.

SECTION VIII - CONTROL MEASURES
Respiratory Protection (Type): NIOSH approved respirator in absence of adequate ventilation.
Ventilation: Yes
Mechanical (General): Yes
Local Exhaust: Yes
Eye Protection: Safety goggles
Protective Gloves: NIOSH approved chemical resistant
Other Protective Clothing or Equipment: Full protective clothing to prevent any contact.
SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS
Boiling Point: NA
Specific Gravity: 1.32
Vapor Pressure (mm Hg): NA
Percent Volatile by Volume: NA
VOC: <5%
Vapor Density (Air = 1): NA
Evaporation Rate (Butyl Acetate = 1): N/A
Melting Point: NA
Solubility in Water: Freely soluble
Reactivity in Water: NA
Appearance and Odor: Amber gel with ammonia odor

SECTION X - STABILITY AND REACTIVITY
Stability: Product is stable
(Conditions to Avoid): Excess heat
Incompatibility: Strong oxidants, sulfides and cyanides.
Hazardous Decomposition Products: Hydrofluoric acid, ammonia, NO₂, boron tri-fluoride gases.
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: Corrosive liquid, N.O.S (contains aminoethylethanolamine, ammonium fluoborate)
Hazard Class: 8
Identification Number: UN1760
Packing Group: II
Type D.O.T Label Required Information: Corrosive
Waste Disposal Method: Dispose of in accordance with EPA regulations
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 and REACH 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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xi</td>
<td>Irritant</td>
</tr>
<tr>
<td>Xn</td>
<td>Harmful</td>
</tr>
<tr>
<td>R22</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>R50/53</td>
<td>Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</td>
</tr>
<tr>
<td>R61</td>
<td>May cause harm to unborn child</td>
</tr>
<tr>
<td>R62</td>
<td>Possible risk to fertility</td>
</tr>
<tr>
<td>R34</td>
<td>Causes burns</td>
</tr>
<tr>
<td>R43</td>
<td>May cause sensitization by skin contact</td>
</tr>
<tr>
<td>R36</td>
<td>Irritating to eyes</td>
</tr>
<tr>
<td>R37</td>
<td>Irritating to respiratory system</td>
</tr>
<tr>
<td>R38</td>
<td>Irritating to skin</td>
</tr>
<tr>
<td>S-26</td>
<td>In case of eye contact, rinse thoroughly and get medical attention</td>
</tr>
<tr>
<td>S-36/37/39</td>
<td>Wear suitable protective clothing, gloves, and eye/face protection</td>
</tr>
<tr>
<td>S-45</td>
<td>In case of accident or if you feel unwell seek medical advise immediately</td>
</tr>
<tr>
<td>H227</td>
<td>Combustible Liquid</td>
</tr>
<tr>
<td>H301 + H311</td>
<td>Toxic if swallowed, toxic if contact with skin</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful if contact with skin</td>
</tr>
<tr>
<td>H360Fd</td>
<td>May damage unborn child, suspected of damage to fertility</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe burns and eye damage</td>
</tr>
<tr>
<td>H317</td>
<td>May cause allergic skin reaction</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H319</td>
<td>Causes eye irritation</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life, with long lasting effects</td>
</tr>
</tbody>
</table>

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
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