SAFETY DATA SHEET
SUPERIOR NO. 1260
DATE REVISED: November 27, 2018

SECTION 1 – IDENTIFICATION
Product Name/Part number: Superior No. 1260
Recommended use: Aluminum Soldering Flux
Manufacturer: Superior Flux & Mfg. Co.
6615 Parkland Blvd
Cleveland OH, 44139
Emergency Contact: CHEMTREC
6615 Parkland Blvd
Emergency Phone: 1-800-424-9300
For other info: (440) 349-3000

SECTION 2 – HAZARD(S) IDENTIFICATION
Classification of the substance or mixture
GHS Classification in accordance with OSHA HCS (29 CFR 1910)
- Flammable liquids (Category 4)  H227
- Corrosive to metals (Category 1)  H290
- Skin corrosion (Category 1B)   H314
- Skin sensitization (Category 1)  H317
- Serious eye damage (Category 1)  H318
- Reproductive toxicity (Category 1B)  H360
- Acute aquatic toxicity (Category 1)  H400
- Chronic aquatic toxicity (Category 1)  H410

See below for full text of H-Statement
GHS Label Elements, including precautionary statements
Pictogram(s):

Signal Word: Danger
Hazard Statement(s)
H227  Combustible liquid
H290  May be corrosive to metals
H314  Causes severe skin burns and eye damage
H317  May cause an allergic skin reaction
**H318  Causes serious eye damage
H360  May damage fertility or the unborn child
**H400  Very toxic to aquatic life
H410  Very toxic to aquatic life with long lasting effects

**May be omitted from label due to presence of stricter statement.
Precautionary statement(s)
P210  Keep away from heat, open flames, or hot surfaces. No smoking
P234  Keep only in original container
P261  Do not breathe mist, fumes, vapors, or spray
P264  Wash skin thoroughly after handling
P272  Contaminated work clothing should not be allowed out of the workplace
P273  Avoid release to the environment
P280  Wear protective gloves, eye protection, and face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
**SECTION 3 – COMPOSITION INFORMATION**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aminoethylethanolamine</td>
<td>111-41-1</td>
<td>20-29</td>
</tr>
<tr>
<td>Ammonium Fluoborate</td>
<td>13826-83-0</td>
<td>15-29</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>1314-13-2</td>
<td>5-15</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>20-29</td>
</tr>
</tbody>
</table>

Unlisted percentages are non-hazardous stabilizers, and water.

**SECTION 4 – FIRST AID MEASURES**

**Description of first aid measures**

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** If breathed in, move to fresh air. If not breathing, give artificial respiration. Consult a physician.

**Eyes:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**Skin:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most Important Symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in section 2 (labeling)

**Medical Conditions Generally Aggravated by Exposure:** Any weakness of the lungs, kidneys or liver will be aggravated.
SECTION 5 – FIREFIGHTING MEASURES

Suitable Extinguishing Media: Dry sand, chemical, or alcohol-resistant foam

Special Hazards: Will release small amounts of hydrofluoric acid

Special protective actions for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. See section 8 for personal protection.

Environmental Precautions: Prevent further leakage or spillage if safe to do so.

In Case Material is spilled: First, neutralize with soda ash or sodium bicarbonate. Dilute with water and place in container for disposal according to local regulations.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling: Avoid inhalation of vapor, fumes, or mist. Keep closed in a dry and well-ventilated place. Keep cool.

General Precautions: Do not eat, drink, or smoke while using this product. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

For full precaution statements see Section 2

Storage Requirements: Store in original containers in cool area.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

OSHA Permissible Exposure Limit (PEL): 2.5 mg/m³

ACGIH Threshold Limit Value (TLV): 2.5 mg/m³

Engineering Controls: Use local exhaust ventilation to maintain air concentrations of vapors and fumes below occupational exposure standards.

Special Engineering Control Needs: Non-sparking

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate, use a respirator with multi-purpose combination (USA) or ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU).

Protective Gloves: Handle with gloves. (Nitrile Rubber recommended) Gloves must be inspected prior to use. Use proper glove removal techniques (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good lab practices. Wash and dry hands after handling.

Eye Protection: Use appropriately fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (USA) or EN 166 (EU)

Body Protection: Chemical resistant rubber apron. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

SECTION 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Gold to yellow liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Ammonia</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>9.5 (10.6% solution in water)</td>
</tr>
<tr>
<td>Melting point/Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (Solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>Upper explosion limit: No data available</td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>Lower explosion limit: No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density (Water = 1)</td>
<td>1.266</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Miscible in water</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: No data available
Stability: Product is stable under recommended storage conditions
Possibility of hazardous reactions: No data available
Conditions to Avoid: Excessive heat
Incompatibility: Strong oxidants, sulfides and cyanides
Hazardous Decomposition Products: Hydrofluoric acid, ammonia, NO₂, boron tri-fluoride gases

In the event of fire: See Section 5
SECTION 11 - TOXICOLOGICAL INFORMATION
Likely Route(s) of Exposure: Inhalation, ingestion, skin and eye contact
Symptoms (Immediate and Chronic) from
  Acute Exposure  No data available
  Prolonged or Repeated Exposure  No data available
Measure(s) of toxicity
  No data available
IARC: No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product is present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

SECTION 12 - ECOLOGICAL INFORMATION
Toxicity
  No data available
Persistence and degradability
  No data available
Bioaccumulative potential  No data available
Mobility in soil  No data available
Other adverse effects
  An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS
Waste treatment methods
Product  Offer surplus and non-recyclable solutions to a licensed disposal company.
  Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging  Dispose of as unused product.
SECTION 14 - TRANSPORTATION

D.O.T. (USA)

Proper Shipping Name: Corrosive liquid, N.O.S (contains aminoethylethanolamine, ammonium fluoborate)

Identification Number: UN1760 Hazard Class(es): 8

Packing Group: II

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

IMDG (Sea transport)

Proper Shipping Name: Corrosive liquid, N.O.S (contains aminoethylethanolamine, ammonium fluoborate)

Identification Number: UN1760 Hazard Class(es): 8

Packing Group: II Marine Pollutant: No

IMDG Code segregation group NONE APPLIES

IATA/ICAO (Air transport)

Proper Shipping Name: Corrosive liquid, N.O.S (contains aminoethylethanolamine, ammonium fluoborate)

Identification Number: UN1760 Hazard Class(es): 8

Packing Group: II Marine Pollutant: No

Hazard Label: 8

SECTION 15 - REGULATORY INFORMATION

SARA 302 Components No Chemicals in this material are subject to the reporting requirement of SARA Title III, Section 302.

SARA 313 Components No chemicals in this material are subject to the reporting requirement of SARA Title III, Section 313.

SARA 311/312 Hazards Acute toxicity, Flammable liquid, Corrosive to metal, Skin corrosion, Serious eye damage, Reproductive toxicity

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

THIS PRODUCT IS ROHS 2 COMPLIANT

SECTION 16 - OTHER INFORMATION

Further information:
Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. The above information does not represent any guarantee of the properties of the product. It is believed to be correct, but does not purport to be all inclusive and should be used only as a guide. Reasonable care has been taken in the preparation of this material, and is based on the present state of our knowledge.

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