SAFETY DATA SHEET
SUPERIOR SF-800
DATE REVISED: March 2, 2020

SECTION 1 -- IDENTIFICATION

Product Name/Part number: Superior SF-800
Recommended use: Powder Concentrate Flux
Manufacturer: Superior Flux & Mfg. Co.
Mfg. Phone No. (440) 349-3000
6615 Parkland Blvd
Cleveland OH, 44139

Emergency Phone No.: 1-800-424-9300 (CHEMTREC)

SECTION 2 – HAZARD(S) IDENTIFICATION
Classification of the substance or mixture

GHS Classification in accordance with OSHA HCS (29 CFR 1910)

<table>
<thead>
<tr>
<th>Class</th>
<th>H-Statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids (Category 2)</td>
<td>H225</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, Oral (Category 4)</td>
<td>H302</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion (Category 2)</td>
<td>H315</td>
<td></td>
</tr>
<tr>
<td>Skin sensitization (Category 1)</td>
<td>H317</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage (Category 1)</td>
<td>H318</td>
<td></td>
</tr>
<tr>
<td>Eye irritation (Category 2A)</td>
<td>H319</td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity – Single exposure, Respiratory system (Category 3)</td>
<td>H335</td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity – Single exposure, Central nervous system (Category 3)</td>
<td>H336</td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity – Repeated oral exposure, Gastrointestinal tract (Category 2)</td>
<td>H373</td>
<td></td>
</tr>
<tr>
<td>Acute aquatic toxicity (Category 2)</td>
<td>H401</td>
<td></td>
</tr>
<tr>
<td>Chronic aquatic toxicity (Category 4)</td>
<td>H413</td>
<td></td>
</tr>
</tbody>
</table>

See below for full text of H-Statements

GHS Label Elements, including precautionary statements

Pictogram(s):

Signal Word: Danger

Hazard Statement(s)

H225 Highly flammable liquids
H302 Harmful if swallowed
H315** Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319** Causes serious eye irritation
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H373 May cause damage to gastrointestinal tract through prolonged or repeated exposure if swallowed.
H401 Toxic to aquatic life
H413 May cause long lasting harmful effects to aquatic life

**May be omitted from label due to presence of stricter statement
Precautionary statement(s)
P210 Keep away from sparks and open flames. No smoking.
P233 Keep container tightly closed.
P240 Bond container and receiving equipment.
P241 Use explosion-proof ventilation equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe mist or fumes
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace
P273 Avoid release to the environment
P280 Wear protective gloves, protective clothing, eye protection
P301+P312+P330 IF SWALLOWED: Call a POISON CENTER if you feel unwell. Rinse mouth
P303+P361+P353 IF ON SKIN (or hair): Remove all contaminated clothing. Rinse skin with water
P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call doctor
P312 Call a POISON CENTER if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice or attention
P337+P313 If eye irritation persists: Get medical attention.
P362 Take off and wash contaminated clothing before reuse.
P370+P378 In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.
P391 Collect spillage
P403+P233+P235 Store in a well-ventilated place. Keep cool and tightly closed.
P405 Store locked up
P501 Dispose of contents to an approved waste disposal plant.

Hazard(s) not otherwise classified or not covered by GHS: None

SECTION 3 – COMPOSITION INFORMATION

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>70 – 90</td>
</tr>
<tr>
<td>Hydrotreated light petroleum distillate</td>
<td>64742-47-8</td>
<td>10 – 30</td>
</tr>
<tr>
<td>Modified Rosin</td>
<td>65997-05-9</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>C-TAB</td>
<td>57-09-0</td>
<td>&lt; 2</td>
</tr>
<tr>
<td>Carboxylic acid</td>
<td>124-04-9</td>
<td>&lt; 2</td>
</tr>
</tbody>
</table>

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: 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)

SECTION 5 – FIREFIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Hazards: No data available

Special protective actions for firefighters: Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors, dust, or fumes. Ensure adequate ventilation. See section 8 for personal protection.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

In Case Material is spilled: Contain spillage, then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or fumes.

For full precaution statements see Section 2

Storage Requirements: Keep container tightly closed in a dry and well-ventilated place.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION CONTROL PARAMETERS

OSHA Permissible Exposure Limit (PEL): 200 ppm

ACGIH Threshold Limit Value (TLV): 200 ppm

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

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate, use a full-face 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 supplied air respirator. Use respirators and components tested an 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: Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (USA) or EN 166 (EU)

Body Protection: Impervious clothing, flame retardant antistatic protective clothing. 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

Appearance Light to dark amber and white solid
Odor Mild
Odor threshold No data available
pH Not applicable
Melting point/Freezing point 85°C / 185°F
Initial boiling point and boiling range No data available
Flash point Not applicable
Evaporation rate Not applicable
Flammability (Solid, gas) Not applicable
Upper flammability or explosive limits Not applicable
Lower flammability or explosive limits Not applicable
Vapor pressure No data available
Vapor density No data available
Relative density No data available
Solubility(ies) Insoluble in water
Partition coefficient: n-octanol/water No data available
Auto-ignition temperature Not applicable
Decomposition temperature No data available
Viscosity Not applicable

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: No data available
Incompatibility: Strong oxidizing agents
Hazardous Decomposition Products: No data available

In the event of fire: See Section 5
SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Route(s) of Exposure: Inhalation, ingestion, skin and eye contact

Acute toxicity  No data available
Skin corrosion/irritation  No data available
Serious eye damage/eye irritation  No data available
Respiratory or skin sensitization  No data available
Germ cell mutagenicity  No data available
Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC  No component of this product 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 present at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP.
OSHA  No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA.
Reproductive toxicity  No data available
Specific target organ toxicity – Single exposure  Respiratory system – May cause respiratory irritation
Specific target organ toxicity – Repeated exposure  No data available
Aspiration hazard  No data available
Additional information  To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

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  Hazard to ozone layer:  No data available
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) – Not dangerous goods
IMDG – Not dangerous goods
IATA – Not dangerous goods

SECTION 15 - REGULATORY INFORMATION

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

SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards Acute Health Hazard

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.

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.

Superior Flux & Mfg. Co. shall not be held liable for any damage resulting from handling or from contact with the above product.

Reference(s):
Sigma-Aldrich – SDS for Gum Rosin

Preparation information
Superior Flux & Mfg. Co.
440-349-3000

Version 2.1
Revision Date: 11/27/2017