SAFETY DATA SHEET
SUPERIOR SSF-NC-400
DATE REVISED: March 2, 2020

SECTION 1 -- IDENTIFICATION
Product Name/Part number: Superior SSF-NC-400
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)
- Flammable liquids (Category 2) H225
- Acute toxicity, Oral (Category 4) H302
- Skin corrosion (Category 2) H315
- Skin sensitization (Category 1) H317
- Serious eye damage (Category 1) H318
- Eye irritation (Category 2A) H319
- Specific target organ toxicity – Single exposure,
  Respiratory system (Category 3) H335
- Specific target organ toxicity – Single exposure,
  Central nervous system (Category 3) H336
- Specific target organ toxicity – Repeated oral exposure,
  Gastrointestinal tract (Category 2) H373
- Acute aquatic toxicity (Category 2) H401
- Chronic aquatic toxicity (Category 4) H413

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.

**Hazards 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)

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**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. Proper Shipping Name: Flammable Liquid, NOS (Contains Isopropanol and Mineral Spirits)
Hazard Class: 3
Identification Number: UN1993
Packing Group: II
Type D.O.T Label Required Information: Flammable Liquid

IMDG – D.O.T. Proper Shipping Name: Flammable Liquid, NOS (Contains Isopropanol and Mineral Spirits)
Hazard Class: 3
Identification Number: UN1993
Packing Group: II
Type D.O.T Label Required Information: Flammable Liquid

IATA – D.O.T. Proper Shipping Name: Flammable Liquid, NOS (Contains Isopropanol and Mineral Spirits)
Hazard Class: 3
Identification Number: UN1993
Packing Group: II
Type D.O.T Label Required Information: Flammable Liquid

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