SAFETY DATA SHEET  
SUPERIOR No. 100  
DATE REVISED: January 31, 2018  

SECTION 1 -- IDENTIFICATION  
Product Name/Part number: Superior No. 100  
Recommended use: Activated Rosin Flux, Type RA  
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 irritation (Category 2) H315  
- Eye irritation (Category 2A) H319  
- Specific target organ toxicity after single exposure – Respiratory system (Category 3) H335  
- Specific target organ toxicity after single exposure – Central nervous system (Category 3) H336  
- Acute aquatic toxicity (Category 2) H401  
- Chronic aquatic toxicity (Category 4) H413  

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

Signal Word: Danger  
Hazard Statement(s)  
- H225 Highly flammable liquid and vapor  
- H302 Harmful if swallowed  
- H315 Causes skin irritation  
- H319 Causes serious eye irritation  
- H335 May cause respiratory irritation  
- H336 May cause drowsiness or dizziness  
- H401 Toxic to aquatic life  
- H413 May cause long lasting harmful effects to aquatic life.  

Precautionary statement(s)  
- P210 Keep away from heat, sparks, hot surfaces, and open flames. No smoking.  
- P233 Keep container tightly closed.  
- P240 Ground container and receiving equipment.  
- P241 Use explosion-proof electrical, lighting and ventilation equipment.  
- P242 Use only non-sparking tools.  
- P243 Take precautionary measures against static discharge  
- P261 Avoid breathing dust, fumes, mist, vapors, or spray  
- P264 Wash skin thoroughly after handling  

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Do not eat, drink, or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective clothing and face protection.

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER if you feel unwell.

If skin irritation occurs: Get medical advice.

If eye irritation persists: Get medical advice or attention.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Store locked up.

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>40-60</td>
</tr>
<tr>
<td>Mineral spirits</td>
<td>64742-47-8</td>
<td>3-9</td>
</tr>
<tr>
<td>Dimethylamine hydrochloride</td>
<td>506-59-2</td>
<td>1-3</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: Flammable, do not mix with strong oxidizing or dehydrating agents. Do not store in presence of oxidizing agents.
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, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. See section 8 for personal protection.
Environmental Precautions: Prevent further leakage or spillage if safe to do so.
In Case Material is spilled: Contain spillage, absorb with sawdust, 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 vapors, fumes, or mist. Use explosion-proof equipment. Keep away from sources of ignition and oxidizing agents – No smoking. Take measures to prevent the build up for electrostatic charge.
For full precaution statements see Section 2
Storage Requirements: Store in plastic containers, tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION
CONTROL PARAMETERS
OSHA Permissible Exposure Limit (PEL): 10 mg/m³
ACGIH Threshold Limit Value (TLV): 10 mg/m³
Engineering Controls: Use local exhaust ventilation to maintain air concentrations of vapors and fumes below occupational exposure standards.
Special Engineering Control Needs: Explosion Proof, non-sparking equipment
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:** Face shield and 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Brown liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</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>82°C / 178°F</td>
</tr>
<tr>
<td>Flash point</td>
<td>12°C / 53°F (closed cup)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>2.88</td>
</tr>
<tr>
<td>Flammability (Solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>Upper explosion limit: 12%</td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>Lower explosion limit: 2%</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>33 mmHg</td>
</tr>
<tr>
<td>Vapor density (Air = 1)</td>
<td>2.07</td>
</tr>
<tr>
<td>Relative density (Water = 1)</td>
<td>0.890 @ 20-25°C</td>
</tr>
<tr>
<td>Solubility (ies)</td>
<td>Slightly 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>398.9°C / 750°F</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</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: Vapors may form explosive mixture with air
Conditions to Avoid: Heat, sparks and flames
Incompatibility: Oxidizing agents, strong acids
Hazardous Decomposition Products Carbon oxides (Under fire conditions)
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
Is this chemical listed in the National Toxicology Program (NTP) Report on Carcinogens? No data available
Is this chemical found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs or by the Occupational Safety and Health Administration (OSHA) No data available
Additional information
Central nervous system depression, prolonged or repeated exposure can cause: nausea, headache, vomiting, narcosis, drowsiness. Overexposure may cause mild, reversible liver effects. Aspiration may lead to: lung edema, pneumonia.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

SECTION 12 - ECOLOGICAL INFORMATION

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 Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. 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: Flammable Liquid, NOS (Contains Isopropanol and Mineral Spirits)
Identification Number: UN1993 Hazard Class(es): 3
Packing Group: II Reportable Quantity (RQ): 5,000 lbs
D.O.T Label Required Information: Flammable Liquid

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 The following components are subject to reporting levels established by SARA Title III, Section 313:

Component | CAS No. | Revision Date
-----------|---------|--------------
2-Propanol  | 67-63-0 | 01-01-1987

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 Isopropanol

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

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