SAFETY DATA SHEET
SUPERIOR NO. 100HT
DATE REVISED: January 1, 2017

Product Name: Superior No. Superior 100HT
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 = 2  REACTIVITY = 0

SECTION I - IDENTIFICATION

Common Name: Superior 100HT
Chemical Family: High Temperature Rosin Flux
CAS Number: NA
Chemical Name: NA
Formula: See below

SECTION II – HAZARDS IDENTIFICATION

Classification of Substance or Mixture:
Classification (CLP): NA
Label Elements (CLP): NA

Risk Phrases: R11, R36, R67
Safety Phrases: S2, S7, S16, S24/25, S-26
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>%</th>
<th>OSHA PEL</th>
<th>H Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rosin Polymerized</td>
<td>65997-05-9</td>
<td>25-50</td>
<td>NE</td>
<td>NA</td>
</tr>
<tr>
<td>Tetrohydro-2-furyl Alcohol</td>
<td>97-99-4</td>
<td>25-50</td>
<td>NA</td>
<td>H302, H319</td>
</tr>
<tr>
<td>Dimethyl ammonium Chloride</td>
<td>506-59-2</td>
<td>&lt;2.5</td>
<td>NA</td>
<td>NA</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.
SECTION IV – FIRST AID MEASURES

Inhalation: Remove to fresh air
Skin: Wash thoroughly with water.
Ingestion: If patient is fully conscious, give large amounts of water. Obtain medical attention immediately.

Most Important Symptoms and effects, both acute and delayed

Primary Routes of Entry into Body: Fume inhalation, ingestion, skin, and eyes.
Symptoms of Overexposure: Salivation, coughing, choking, chills, may cause weight loss, brittle bones, anemia, and stiff joints.
Medical Conditions Generally Aggravated by Exposure: Any weakness of the lungs, kidneys or liver will be aggravated.
Chemical Listed as Carcinogen or Potential Carcinogen: None
OSHA Permissible Exposure Limit (PEL): NA
ACGIH Threshold Limit Value (TLV): NA

SECTION V - FIRE AND EXPLOSION HAZARD DATA

Flash Point (TCC): 12°C/53°F
Flammable Limits: Lower-2 Upper-12
Extinguishing Media: Dry chemical, CO₂
Auto Ignition Temperature: 398.9°C/750°F
Special Fire Fighting Procedures: Wear protective clothing, including NIOSH approved self-contained breathing apparatus
Unusual Fire and Explosion Hazards: Flammable, do not mix with strong oxidizing or dehydrating agents. Do not store in presence of oxidizing agents.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Spilled: Absorb with sawdust and remove in accordance to EPA regulations.

SECTION VII - HANDLING AND STORAGE

Storage Requirements: Store in plastic containers in cool area. Do not store in glass containers.
Handling Precautions: Safe precautionary practices.
Other Precautions: Keep away from electrical sparks, heat, open flame or oxidizing agents.
SECTION VIII - CONTROL MEASURES
Respiratory Protection (TYPE): NIOSH approved respirator.
Ventilation: Yes
Mechanical (General): Explosion proof
Local Exhaust: Yes
Protective Gloves: Recommended, NIOSH approved
Other Protective Clothing or Equipment: Rubber apron is recommended.
Eye Protection: Safety Glasses
Regulatory Information: The chemical components are listed on TSCA and DSL inventory. See composition section ii for CAS numbers.

SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS
Boiling Point: 82°C/179.6°F
Specific Gravity (Water = 1): 0.8900
Vapor Pressure (mm Hg): 33
Percent Volatile by Volume: 58.0%
Vapor Density (Air = 1): 2.07
Evaporation Rate (Butyl Acetate = 1): 2.88
Melting Point: -88.5°C/-127.3°F
Solubility in Water: Unlimited
Reactivity in Water: None
Appearance and Odor: Brown liquid, alcohol odor

SECTION X - STABILITY AND REACTIVITY
Stability: Product is stable
(Conditions to Avoid): Avoid heat sparks and open flames
Incompatibility: Strong oxidizers.
Hazardous Decomposition Products: CO.
Hazardous Polymerization: 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: 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 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 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:

- **R11**  Highly flammable
- **R36**  Irritating to eyes
- **R67**  Irritating to respiratory system
- **S-2**  Keep out of the reach of children
- **S-7**  Keep container tightly closed
- **S-16**  Keep away from sources of ignition - No smoking
- **S-24/25**  Avoid contact with skin and eyes
- **S-26**  In case of eye contact, rinse thoroughly and get medical attention
- **H302**  Harmful if swallowed
- **H319**  Causes serious eye irritation.

- **P210**  Keep away from heat/sparks/open flames/hot surfaces – No smoking
- **P233**  Keep container tightly closed
- **P240**  Ground/Bond container and receiving equipment
- **P241**  Use explosion-proof electrical/ventilating/lighting/…/equipment
- **P242**  Use only non-sparking tools
- **P243**  Take precautionary measure against static discharge
- **P260**  Do not breathe dust/fume/gas/mist/vapors/spray
- **P264**  Wash … thoroughly after handling
- **P270**  Do not eat, drink or smoke when using this product
- **P271**  Use only outdoors or in a well-ventilated area
- **P280**  Wear protective gloves/protective clothing/eye protection/face protection
- **P304+P340**  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P301+P310  IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P308+P313  IF exposed or concerned: Get medical advice/attention
P331  Do NOT induce vomiting
P303+361+353  IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
Rinse skin with water/shower
P501  Dispose of contents/container to…

Further information:
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