SAFETY DATA SHEET
SUPERIOR SSF-RMA20
DATE REVISED: January 1, 2016

Product Name: Superior SSF-RMA20
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.

SECTION I - IDENTIFICATION

Common Name: Superior SSF-RMA20
Chemical Family: Selective Soldering Flux, Type RMA
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>Isopropanol</td>
<td>67-63-0</td>
<td>70-85</td>
<td>400 PPM</td>
<td>H225, H302, H305, H320, H332, H336</td>
</tr>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>8-15</td>
<td>200PPM</td>
<td>H225, H301, H311, H331, H370</td>
</tr>
<tr>
<td>Mineral Spirits</td>
<td>8032-32-4</td>
<td>10-15</td>
<td>500PPM</td>
<td>H225, H304, H340</td>
</tr>
<tr>
<td>C-tab</td>
<td>57-09-0</td>
<td>0.1-1.5</td>
<td>NA</td>
<td>H350</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: 82.3°C/180.1°F
Specific Gravity (Water = 1): 0.850
Vapor Pressure (mm Hg): 33
Percent Volatile by Volume: 80%
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 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
H225 Highly flammable liquid and vapor
H301 Toxic if swallowed
H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H305 May be harmful if swallowed and enters airways
H311 Toxic in contact with skin
H320 Causes eye irritation
H331 Toxic if inhaled
H332 Harmful if inhaled
H340 May cause genetic defects
H350 May cause cancer
H370 Causes damage to organs
P201 Obtain special instructions before use
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  
P311  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:
Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this material, but there are NO WARRANTIES, NO REPRESENTATIONS AND NO RESPONSIBILITY AS TO THE ACCURACY OR THE SUITABILITY OF THIS INFORMATION FOR ANY PURCHASER'S USE OR FOR ANY CONSEQUENCE TO USE.