

# SAFETY DATA SHEET

## SUPERIOR No. 97

DATE REVISED: January 1, 2020

### SECTION 1 -- IDENTIFICATION

**Product Name/Part number:** Superior No. 97

**Recommended use:** Solderability Testing Flux

**Manufacturer:** Superior Flux & Mfg. Co.  
6615 Parkland Blvd  
Cleveland OH, 44139

**Mfg. Phone No.** (440) 349-3000

**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

Eye irritation (Category 2A) H319

Specific target organ toxicity after single exposure – Central nervous system (Category 3) H336

*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 liquid and vapor

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

##### 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

P264 Wash skin thoroughly after handling

P271 Use only outdoors or in a well-ventilated area

P280 Wear protective clothing and face protection

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice.

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**(precautionary statements, continued)**

P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up  
P501 Dispose of contents to an approved waste disposal plant.

**Hazards not otherwise classified or not covered by GHS:** None

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### SECTION 3 – COMPOSITION INFORMATION

Components	CAS Number	%
Isopropanol	67-63-0	40-70
Rosin, polymerized	65997-05-9	20-50

Unlisted percentages are non-hazardous stabilizers, and water. None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.

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### 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.

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## 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. 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.

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## SECTION 7 - HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition – No smoking. Take measures to prevent the build up for electrostatic charge.

For full precaution statements see Section 2

**Storage Requirements:** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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## 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.

**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 and 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.

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## SECTION 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

<b>Appearance</b>	Amber liquid
<b>Odor</b>	Alcohol
<b>Odor threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point/Freezing point</b>	-89.5°C / -129°F
<b>Initial boiling point and boiling range</b>	81-83°C / 177.8-181°F
<b>Flash point</b>	12°C / 53.5°F (closed cup)
<b>Evaporation rate</b>	No data available
<b>Flammability (Solid, gas)</b>	No data available
<b>Upper flammability or explosive limits</b>	Upper explosion limit: 12.7% (V)
<b>Lower flammability or explosive limits</b>	Lower explosion limit: 2% (V)
<b>Vapor pressure</b>	43 hPa (32.5 mmHg) at 20°C / 68°F 59 hPa (44.0 mmHg) at 25°C / 77°F
<b>Vapor density</b>	No data available
<b>Relative density</b>	0.842 (Water = 1)
<b>Solubility(ies)</b>	Slightly miscible in water
<b>Partition coefficient: n-octanol/water</b>	log Pow: 0.05
<b>Auto-ignition temperature</b>	425°C / 797°F
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available

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## 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, acid anhydrides, aluminum, halogenated compounds, acids

**Hazardous Decomposition Products** Carbon oxides (Under fire conditions)

In the event of fire: See Section 5

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## 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**

Inhalation, Oral – May cause drowsiness or dizziness

**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

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## SECTION 12 - ECOLOGICAL INFORMATION

### **TOXICITY**

**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

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## 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.

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## SECTION 14- TRANSPORTATION

### D.O.T. (USA)

**Proper Shipping Name:** Isopropanol

**Identification Number:** UN1219

**Packing Group:** II

**Special Precautions to Note:**

**Poison Inhalation Hazard?** No

**Hazard Class(es):** 3

**Reportable Quantity (RQ):** 5,000 lbs

**Environmental Hazards**

**Marine Pollutant?** No

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## 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.

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## 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

### Preparation information

Superior Flux & Mfg. Co.

440-349-3000

Version 2.1

Revision Date: 11/15/2017

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