

# MATERIAL SAFETY DATA SHEET

## SUPERIOR NO. 315-LF

DATE REVISED: January 1, 2011

**Product Name:** Superior No. 315-LF

**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 =1      FLAMMABILITY = 3      REACTIVITY =0**

### SECTION I - IDENTIFICATION

**Common Name:** Superior No. 315-LF

**Chemical Family:** Lead Free, No-Clean Soldering Flux

**CAS Number:** NA

**Chemical Name:** NA

**Formula:** See Below

### SECTION II - COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL
Ethanol	64-17-5	85-97	1000 PPM
Carboxylic Acids	68937-69-9	1-4	NA

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 III - HEALTH HAZARDS

**Primary Routes of Entry:** Fume inhalation, ingestion, skin, and eyes.

**Symptoms of Overexposure:** Dizziness, blurred vision, headache, irritation of mucous membranes, loss of appetite, and inability to concentrate.

**Medical Conditions Generally Aggravated by Overexposure:** Skin conditions, kidney or liver diseases.

**Chemical Listed as a Carcinogen or Potential Carcinogen:** None

**OSHA Permissible Exposure Limit (PEL):** 1000 PPM

**ACGIH Threshold Limit Value (TLV):** 1000 PPM

### SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

**Eyes:** Flush with water for 15 minutes. Call a physician.

**Skin:** Wash thoroughly with soap and water.

**Inhalation:** Remove to fresh air or administer oxygen. Call physician.

**Ingestion:** Give large amounts of water and induce vomiting. Obtain medical attention immediately.

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## SECTION V - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** 11.7°C/53°

**Flammable Limits:** Lower-2 Upper-12

**Extinguishing Media:** Dry Chemical, CO<sub>2</sub>

**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.

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## SECTION VI - ACCIDENTAL RELEASE MEASURES

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

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## 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.

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## 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.

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## SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

**Boiling Point:** 77°C/170.6°F

**Specific Gravity (Water = 1):** 0.815

**Vapor Pressure (mm Hg):** 42

**Percent Volatile by Volume:** 94%

**Vapor Density (Air = 1):** 1.4

**Evaporation Rate (Butyl Acetate = 1):** 3.1

**Melting Point:** -90°C/-130°F

**Solubility in Water:** Unlimited

**Reactivity in Water:** None

**Appearance and Odor:** Clear liquid, alcohol odor

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## SECTION X - STABILITY AND REACTIVITY

**Stability:** Product is stable (Conditions to Avoid): NA  
**Incompatibility:** Strong oxidizers, alkaline compounds  
**Hazardous Decomposition Products:** CO<sub>2</sub>, CO.  
**Hazardous Polymerization:** NA (Conditions to Avoid): NA

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## 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
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## SECTION XII - ECOLOGICAL INFORMATION

**This Material has not been Tested for Environmental Effects.**

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## SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of in accordance with EPA regulations

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## SECTION XIV- TRANSPORTATION

**D.O.T. Proper Shipping Name:** Alcohol NOS (Contains Ethanol, Methanol)  
**Hazard Class:** 3  
**Identification Number:** UN1987  
**Packing Group:** II  
**Type D.O.T Label Required Information:** Flammable Liquid

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## SECTION XV - REGULATORY INFORMATION

**OSHA Hazardous Chemical According to 29 CFR 1910.1200:** Isopropyl Alcohol

**Carcinogenicity Classification: (Components Present at 0.1% or More)**  
**International Agency for Research on Cancer (IARC):** Not Listed  
**American Conference of Governmental Industrial Hygienists (ACGIH):** Not Listed  
**National Toxicology Program (NTP):** Not Listed  
**Occupational Safety and Health Administration (OSHA):** Not Listed

**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.**

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## **SECTION XVI - OTHER INFORMATION**

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