



## MATERIAL SAFETY DATA SHEET SUPERIOR No. 91

DATE REVISED: February 9, 2004



**Product Name:** Superior No. 91

**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. 91

**Chemical Family:** Organic Acid Soldering Flux

**CAS Number:** NA

**Chemical Name:** NA

**Formula:** See Below

### SECTION II - COMPOSITION INFORMATION

<u>Components</u>	<u>CAS Number</u>	<u>%</u>	<u>OSHA PEL</u>
Isopropanol	67-63-1	70-90	400PPM
Citric Acid	77-92-9	10-25	15PPM

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

### SECTION III - HEALTH HAZARDS

#### EMERGENCY AND FIRST AID PROCEDURES

**Eyes:** Flush with Water for 10 Minutes. Call a Physician.

**Skin:** Wash Thoroughly with Water.

**Inhalation:** Remove to Fresh Air or Administer Oxygen. Call Physician.

**Ingestion:** If Patient is Fully Conscious, Give Two Glasses of Water and Induce Vomiting. Obtain Medical Attention Immediately.

**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):** 15 PPM

**ACGIH Threshold Limit Value (TLV):** 15 PPM

*Superior manufactures quality fluxes. Our business is solving problems.*



## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** 18.3°C/65°F

**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

## SECTION V - ACCIDENTAL RELEASE MEASURES

**Steps to be Taken in Case Material is Spilled:** Absorb with Sawdust and Remove in Accordance to EPA Regulations.

## SECTION VI - 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 VII - CONTROL MEASURES

**Respiratory Protection (TYPE):** NIOSH Approved Respirator.

**Ventilation:** Yes

**Mechanical (General):** Explosion Proof

**Local Exhaust:** Yes

**Eye Protection:** Safety Glasses

**Protective Gloves:** Recommended, NIOSH Approved

**Other Protective Clothing or Equipment:** Rubber Apron is Recommended

## SECTION VIII - PHYSICAL AND CHEMICAL CHARACTERISTICS

**Boiling Point:** 82°C/179.6°F

**Specific Gravity (Water = 1):** 0.850

**Vapor Pressure (mm Hg):** 33

**Percent Volatile by Volume:** 83%

**Vapor Density (Air = 1):** 2.07

**Evaporation Rate (Butyl Acetate = 1):** 2.88

**Melting Point:** -88°C/-127°F

**Solubility in Water:** Unlimited

**Reactivity in Water:** None

**Appearance and Odor:** Clear Liquid, Alcohol Odor

## SECTION IX - STABILITY AND REACTIVITY

**Stability:** Product is Stable

**(Conditions to Avoid):** NA

**Incompatibility:** Strong Oxidizers.

**Hazardous Decomposition Products:** CO.

**Hazardous Polymerization:** NA

**(Conditions to Avoid):** NA

## SECTION X - TRANSPORTATION AND DISPOSAL CONSIDERATIONS

**D.O.T. Proper Shipping Name:** Isopropanol

**Hazard Class:** 3

**Identification Number:** UN1219

**Packing Group:** II

**Type D.O.T Label Required Information:** Flammable Liquid

**Waste Disposal Method:** Dispose of in Accordance with EPA Regulations

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