



MATERIAL SAFETY DATA SHEET

SUPERIOR No. 84

DATE REVISED: February 9, 2004



Product Name: Superior No. 84
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. 84 **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
DMA-HCL	506-59-2	1-5	10PPM
Hydrobromic Acid	10035-10-6	1-5	3PPM
Alkanolamine	141-43-5	1-5	3PPM

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): 400 PPM
ACGIH Threshold Limit Value (TLV): 400 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-12.7

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 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): 0.8475 ± 0.005 @ 25°C

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: -88.5°C/-127.3°F

Solubility in Water: Unlimited

Reactivity in Water: None

Appearance and Odor: Clear, pale yellow liquid, alcohol odor.

SECTION IX - STABILITY AND REACTIVITY

Stability: Product is stable.

(Conditions to Avoid): NA

Incompatibility: Strong oxidizers, alkaline compounds.

Hazardous Decomposition Products: CO₂, 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: UN 1219

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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