



MATERIAL SAFETY DATA SHEET

SUPERIOR No. 48

DATE REVISED: January 7, 2004



Product Name: Superior No. 48

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 = 2 FLAMMABILITY = 3 REACTIVITY = 0

SECTION I - IDENTIFICATION

Common Name: Superior No. 48

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>
Methanol	67-56-1	30-70	200PPM
Glutamic Acid Hydrochloride	15767-75-6	4-10	NA
Ammonium Bifluoride	1341-49-7	0.1-1.0	2.5PPM

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 a Physician

Ingestion: If Patient is Conscious, Drink Two Glasses of Water and Induce Vomiting. Get Medical Attention Immediately.

Primary Routes of Entry: Fume Inhalation, Ingestion, Skin, and Eyes.

Symptoms of Overexposure: Dizziness, Blurred Vision, Headache, Irritation of Mucous Membranes, if Swallowed Possible Death.

Medical Conditions Generally Aggravated by Overexposure: Cumulative Poison, Skin, Central Nervous System, Gastrointestinal Tract and Eyes.

Chemical Listed as a Carcinogen or Potential Carcinogen: No

OSHA Permissible Exposure Limit (PEL): 200PPM

ACGIH Threshold Limit Value (TLV): 200PPM

Superior manufactures quality fluxes. Our business is solving problems.



SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 12°C/54°F

Flammable Limits: Lower-2, Upper-12

Extinguishing Media: Dry Chemical, CO₂

Auto Ignition Temperature: 385°C/725°F

Special Fire Fighting Procedures: Flammable, Do Not Mix With Strong Oxidizing or Dehydrating Agents. Do not Store in the Presence of Oxidizing Agents.

SECTION V - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Spilled: Absorb Spill with Sawdust and Dispose of in Accordance with EPA Regulations and Wash with Plenty of Water.

SECTION VI - HANDLING AND STORAGE

Storage Requirements: Store in Plastic Containers in Cool Area Away From Heat. Do Not Store in Glass or in the Presence of Oxidizing Agents.

Handling Precautions: Safe, Precautionary Practices to Avoid Spills and Exposure to Skin or Fumes.

Special Precautions: Keep Out of Contact with Electrical Sparks, Heat or Open Flame. Keep Away From 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/Goggles

Protective Gloves: Recommended, NIOSH Approved

Other Protective Clothing or Equipment: Rubber Apron is Recommended

SECTION VIII - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: 64.7°C/148.5°F

Specific Gravity (Water = 1): 0.895

Vapor Pressure (mm Hg): 90

Percent Volatile by Volume: 78%

Vapor Density (Air = 1): 1.105

Evaporation Rate (Butyl Acetate = 1): 2.4

Melting Point: -97.8°C/-144°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 Oxidizing and Dehydrates Materials

Hazardous Decomposition Products: HCl, Dimethylamine, Acetic Acid, HF, Formic Acid.

Hazardous Polymerization: NA

(Conditions to Avoid): NA

SECTION X - TRANSPORTATION AND DISPOSAL CONSIDERATIONS

D.O.T. Proper Shipping Name: Methanol

Identification Number: UN1230

Hazard Class: 3

Packing Group: II

Type D.O.T Label Required Information: Flammable Liquid, Poison

Waste Disposal Method: Dispose of in Accordance with EPA Regulations

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Superior manufactures quality fluxes. Our business is solving problems.



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& Mfg. Co.**

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