

MATERIAL SAFETY DATA SHEET

SUPERIOR NO. 80

DATE REVISED: January 1, 2011

Product Name: Superior No. 80

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. 80

Chemical Family: Neutral, Water Soluble Flux

CAS Number: NA

Chemical Name: NA

Formula: See Below

SECTION II - COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL
Isopropanol	67-63-0	75-95	400PPM
Dimethylamine Hydrochloride	506-59-2	2-6	10 mg/m ³
Hydrobromic Acid	10035-10-6	1-5	3 mg/m ³
Alkanolamine	141-43-5	1-5	3 mg/m ³

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.

Signs and Symptoms of Exposure: Irritation of eye, nose, throat, corrosion of mucous membranes, pulmonary edema, coughing, chest pain, difficulty breathing, headache, vomiting, coma, unconsciousness, and death.

Medical Conditions Generally Aggravated by Overexposure: NA

Chemical Listed as a Carcinogen or Potential Carcinogen: None

OSHA Permissible Exposure Limit (PEL): NA

ACGIH Threshold Limit Value (TLV): 10mg/m³

SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush with water for 30 Minutes. Call a physician.
Skin: Wash thoroughly with lot of water. Consult a physician if irritation continues.
Inhalation: Remove to fresh air: give artificial respiration if not breathing. Consult a physician.
Ingestion: Do not induce vomiting. If conscious, give lots of water. Get immediate medical attention. Never give anything by mouth to an unconscious person.

SECTION V - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 18.3°C/65°F

Flammable Limits: Lower: 2, Upper: 12.7

Extinguishing Media: Water spray, dry chemical, CO₂, or alcohol foam. Do not use a direct water stream.

Auto Ignition Temperature: NF

Special Fire Fighting Procedures: Evacuate area of unprotected personal; wear protective clothing including a NIOSH- approved self-contained breathing apparatus. Alcohol fire fighting.

Unusual Fire and Explosion Hazards: Extinguish all nearby sources of ignition because vapors may be moved by air currents to ignition sources distant from the handling point.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Spilled: Eliminate all ignition sources. Ground equipment to prevent sparking. Wear protective equipment. Collect the material for reclaim or place in a covered waste disposal container.

SECTION VII - HANDLING AND STORAGE

Storage Requirements: Keep away from heat, sparks and open flames. Keep containers closed tightly.

Handling Precautions: Ground all handling equipment.

SECTION VIII - CONTROL MEASURES

Respiratory Protection (TYPE): NIOSH approved respirator.

Ventilation: Yes

Mechanical (General): Yes

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.

SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: NF

Specific Gravity (Water = 1): 0.840
Vapor Pressure (20C): NF
Percent Volatile by Volume: 83%
Vapor Density (Air = 1): NF
Evaporation Rate (Butyl Acetate = 1): NF
Melting Point: NF
Solubility in Water: Completely soluble
Reactivity in Water: None
Appearance and Odor: Colorless liquid, alcohol odor

SECTION X - STABILITY AND REACTIVITY

Stability: Product is stable (Conditions to Avoid): NA
Incompatibility: Alkalis, strong oxidizing agents.
Hazardous Decomposition Products: Hydrochloric acid
Hazardous Polymerization: Will not occur (Conditions to Avoid): NA

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.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with EPA regulations

SECTION XIV- TRANSPORTATION

D.O.T. Proper Shipping Name: Isopropanol
Identification Number: UN 1219
Hazard Class: 3
Type D.O.T Label Required Information: Flammable Liquid
Packing Group: II

SECTION XV - REGULATORY INFORMATION

OSHA Hazardous Chemical According to 29 CFR 1910.1200: None

Carcinogenicity Classification (Components Present at 0.1% or More): Non-Carcinogenic
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

None of the components of this product are listed on the U.S. toxic substances control act. Inventory or otherwise comply with TSCA premanufacture notification requirements. This Product is RoHS Compliant.

SECTION XVI - OTHER INFORMATION

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