

# MATERIAL SAFETY DATA SHEET

## SUPERIOR NO. 80

DATE REVISED: January 1, 2014

**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.

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|--|-------------------------|-----------------------|
| <b>H.M.I.S. INFORMATION: HEALTH =1</b> | <b>FLAMMABILITY = 3</b> | <b>REACTIVITY = 0</b> |
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### 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 <sup>3</sup> |
| Hydrobromic Acid            | 10035-10-6 | 1-5   | 3 mg/m <sup>3</sup>  |
| Alkanolamine                | 141-43-5   | 1-5   | 3 mg/m <sup>3</sup>  |

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/m<sup>3</sup>

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## 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.

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## 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, CO<sub>2</sub>, 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.

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## 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.

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## 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.

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## 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.

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## 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

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## 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

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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:** Isopropanol

**Identification Number:** UN 1219

**Hazard Class:** 3

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

**Packing Group:** II

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## **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.**

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## **SECTION XVI - OTHER INFORMATION**

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