

MATERIAL SAFETY DATA SHEET

SUPERIOR NO. 312 AM2

DATE REVISED: January 1, 2011

Product Name: Superior No. 312 AM2

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. 312 AM2

Chemical Family: No-Clean Soldering Flux

CAS Number: NA

Chemical Name: NA

Formula: See Below

SECTION II - COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL
Ethanol	64-17-5	75-97	1000 PPM
Mineral Spirits	8032-32-4	10-20	500 PPM
THFA	97-99-4	5-15	NA
Carboxylic Acids	68937-69-9	1-4	NA

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.

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): 1000 PPM

ACGIH Threshold Limit Value (TLV): 1000 PPM

SECTION IV - 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.

SECTION V - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 11.7°C/53°
Flammable Limits: Lower-2 Upper-12
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 VI - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Spilled: Absorb with sawdust and remove in accordance to EPA regulations.

SECTION VII - 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 VIII - CONTROL MEASURES

Respiratory Protection (TYPE): NIOSH approved respirator.
Ventilation: Yes
Mechanical (General): Explosion proof
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: 77°C/170.6°F
Specific Gravity (Water = 1): 0.815
Vapor Pressure (mm Hg): 42
Percent Volatile by Volume: 94%
Vapor Density (Air = 1): 1.4
Evaporation Rate (Butyl Acetate = 1): 3.1
Melting Point: -90°C/-130°F
Solubility in Water: Unlimited
Reactivity in Water: None
Appearance and Odor: Clear liquid, alcohol odor

SECTION X - 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 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

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: Alcohol NOS (Contains Ethanol, Methanol)
Hazard Class: 3
Identification Number: UN1987
Packing Group: II
Type D.O.T Label Required Information: Flammable Liquid

SECTION XV - REGULATORY INFORMATION

OSHA Hazardous Chemical According to 29 CFR 1910.1200: Isopropyl Alcohol

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

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

All Components of this Product are Listed on the U.S. Toxic Substances Control Act Inventory or Otherwise Comply with TSCA Pre-manufacture Notification Requirements.

This Product is RoHS Compliant.

SECTION XVI - OTHER INFORMATION

DISCLAIMER: Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this material, but there are NO WARRANTIES, NO REPRESENTATIONS AND NO RESPONSIBILITY AS TO THE ACCURACY OR THE SUITABILITY OF THIS INFORMATION FOR ANY PURCHASER'S USE OR FOR ANY CONSEQUENCE TO USE.
