SAFETY DATA SHEET SUPERIOR NO. 435

DATE REVISED: January 1, 2017

Product Name: Superior No. Superior 435

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 = 3 FLAMMABILITY = 0 REACTIVITY = 0

SECTION I - IDENTIFICATION

Common Name: Superior 435

Chemical Family: Soft Soldering Flux

CAS Number: NA Chemical Name: NA Formula: See below

SECTION II – HAZARDS IDENTIFICATION

Classification of Substance or Mixture:

Classification (CLP): Corrosive Label Elements (CLP): Corrosive







Corrosive

Irritant

Flammable

Precautionary Phrases: P210, P264, P270, P280, P301+P312, P305+P351+P338, P330, P337+P313,

P301+P330+P331, P304+P340, P309+P311

Risk Phrases: R36/37/38, R34

Safety Phrases: S-26, S-27, S-36/37/39, S-45, S18, S61, S62, S64

See section XVI for full text description of S and R phrases

Other Hazards: None if used properly

SECTION III- COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL	H Phrases
Isopropanol	67-63-0	90-98	400 PPM	H225, H302, H305,
				H320, H332, H336
Hydroxyacetic Acid	79-14-1	65-86	NA	H302, H312, H318
Monoethanolamine	141-43-5	4-15	3 mg/m^3	H227, H312, H332, H302, H335, H314

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 IV – FIRST AID MEASURES

Inhalation: Remove to fresh air

Eyes: Flush with water for fifteen (15) Minutes. Call physician.

Skin: Wash thoroughly with soap and water.

Ingestion: If patient is fully conscious, give large amounts of water. Obtain medical attention

immediately.

Most Important Symptoms and effects, both acute and delayed

Primary Routes of Entry into Body: Fume inhalation, ingestion, skin, and eyes.

Symptoms of Overexposure: Salivation, coughing, choking, chills, may cause weight loss, brittle

bones, anemia, and stiff joints.

Medical Conditions Generally Aggravated by Exposure: Any weakness of the lungs, kidneys or

liver will be aggravated.

Chemical Listed as Carcinogen or Potential Carcinogen: None

OSHA Permissible Exposure Limit (PEL): NA **ACGIH Threshold Limit Value (TLV):** NA

SECTION V - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 18.3°C/65°F

Flammable Limits in Air % by Volume: Upper 13- Lower 2

Auto Ignition Temperature: 398.9°C/750°F **Extinguishing Media**: CO₂, dry chemical

Unusual Fire and Explosion Hazards: Flammable, do not mix with strong oxidizing agents or

dehydrating agents. Do not store with oxidizing agents.

Special Fire Fighting Procedures: Wear protective clothing, including NIOSH self-contained

breathing apparatus

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is spilled: Absorb spill with sawdust or wood shavings and remove in accordance with EPA regulations.

SECTION VII - HANDLING AND STORAGE

Storage Requirements: Plastic containers in a cool dry place when not in use.

Handling Requirements: Safe precautionary use to prevent spills and exposure to skin. Keep away

from oxidizing agents. **Other Precautions:** None

SECTION VIII - CONTROL MEASURES

Respiratory Protection (TYPE): NIOSH approved respirator.

Ventilation: Yes

Mechanical (General): Yes

Local Exhaust: Yes

Eve Protection: Safety glasses

Protective Gloves: Recommended, NIOSH approved

Other Protective Clothing or Equipment: Rubber gloves and an apron

SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: 82°C /179.6°F

Specific Gravity (Water = 1): 1.00 Vapor Pressure (mmHg): 33 Percent Volatile By Volume: 77% 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: Amber liquid, alcohol odor

SECTION X - STABILITY AND REACTIVITY

Stability: Product is stable **Conditions to Avoid:** None

Hazardous Polymerization: None **Conditions to Avoid:** Extreme heat

Incompatibility: Oxidizing agents and metals.

Hazardous Decomposition Products: Nitrogen products, CO, CO₂ (above 26°C/500°F)

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: Flammable Liquid, Corrosive, NOS (Contains Isopropanol, Glycolic

Acid)

Hazard Class: 3 (8)

Identification Number: UN2924

Packing Group: II

Type D.O.T Label Required Information: Flammable Liquid, Corrosive **Waste Disposal Method:** Dispose in Accordance with EPA Regulations

SECTION XV - REGULATORY INFORMATION

OSHA Hazardous Chemical According to 29 CFR 1910.1200: NA

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

International Agency for Research on Cancer (IARC): NA

American Conference of Governmental Industrial Hygienists (ACGIH): NA

National Toxicology Program (NTP): NA

Occupational Safety and Health Administration (OSHA): NA

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

The labeling of this product is indicated in Section II. The full text of all abbreviations indicated by codes in the MSDS are as follows:

R36 Irritating to eyes R37 Irritating to respiratory system R38 Irritating to skin S-18 Handle and open container with care S-26 In case of eye contact, rinse thoroughly and get medical attention S-27 Take off immediately contaminated clothing S-36/37/39 Wear suitable protective clothing, gloves, and eye/face protection S-45 In case of accident or if feel unwell call medical advice immediately S61 Avoid release to the environment. Refer to special instructions/safety data sheet S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible S64 If swallowed, rinse mouth with water (only if the person is conscious) P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking P264 Wash thoroughly after handling		
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P/6/1 Wash thoroughly after handling		
P270 Do not eat, drink or smoke when using this product		
P280 Wear protective gloves/protective clothing/eye protection/face protection		
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell		
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove		
contact lenses if present and easy to do – continue rinsing		
P330 Rinse mouth		
P337+P313 If eye irritation persists get medical advice/attention		
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting		
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position		
comfortable for breathing		
P309+P311 IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician		

H225	Highly flammable liquid and vapour
H305	May be harmful if swallowed and enters airways
H320	Causes eye irritation
H332	Harmful if inhaled
H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful if contact with skin
H318	Causes serious damage to eyes
H332	Harmful if inhaled
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation

Further information:

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