

SAFETY DATA SHEET

SUPERIOR NO. 48

DATE REVISED: January 1, 2016

Product Name: Superior No. Superior 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 48

Chemical Family: Organic Acid, Halide Flux

CAS Number: NA

Chemical Name: NA

Formula: See below

SECTION II – HAZARDS IDENTIFICATION

Classification of Substance or Mixture:

Classification (CLP): NA

Label Elements (CLP): NA



Precautionary Statements: P201, P210, P233, P240, P241, P242, P243, P260, P264, P270, P271, P280, P304+P340, P301+P310, P308+P313, P331, P303+P361+P353, P501

Risk Phrases: R11, R36, R67

Safety Phrases: S2, S7, S16, S24/25, S-26

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

Other Hazards: None if used properly

SECTION III- COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL	H Phrases
Methanol	67-56-1	8-15	200PPM	H225, H301, H311, H331, H370
Glutamic Acid-HCl	15767-75-6	3-9	NA	H314, H318
Ammonium Bifluoride	1341-49-7	0.1-3.0	2.5mg/m ³	H301, 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 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: 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 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): 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: 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 X - STABILITY AND REACTIVITY

Stability: Product is stable **(Conditions to Avoid):** Avoid heat sparks and open flames

Incompatibility: Strong oxidizers.

Hazardous Decomposition Products: CO.

Hazardous Polymerization: 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: Methanol

IATA Proper Shipping Name: Methanol

IMDG Proper Shipping Name: Methanol

Identification Number: UN1230

Hazard Class: 3

Packing Group: II

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

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:

R11	Highly flammable
R36	Irritating to eyes
R67	Irritating to respiratory system
S-2	Keep out of the reach of children
S-7	Keep container tightly closed
S-16	Keep away from sources of ignition - No smoking
S-24/25	Avoid contact with skin and eyes
S-26	In case of eye contact, rinse thoroughly and get medical attention
H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H331	Toxic if inhaled
H370	Causes damage to organs
P201	Obtain special instructions before use
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P240	Ground/Bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/lighting/.../equipment
P242	Use only non-sparking tools

P243 Take precautionary measure against static discharge
P260 Do not breathe dust/fume/gas/mist/vapors/spray
P264 Wash ... thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves/protective clothing/eye protection/face protection
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P308+P313 IF exposed or concerned: Get medical advice/attention
P331 Do NOT induce vomiting
P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P501 Dispose of contents/container to...

Further information:

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