

# MATERIAL SAFETY DATA SHEET

## SUPERIOR NO. 462

DATE REVISED: January 1, 2014

**Product Name:** Superior No. 462

**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 no. 462

**Chemical Family:** Zinc free organic acid tinning flux

**CAS Number:** NA

**Chemical Name:** NA

**Formula:** See below

### SECTION II - COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL
Ammonium Chloride	12125-02-9	10-25	NA
Hydroxyacetic Acid	79-14-1	25-50	NA

Unlisted percentages are non-hazardous stabilizers, activators, 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 into Body:** Fume inhalation, ingestion, skin, and eyes.

**Symptoms of Overexposure:** Irritation of eye, skin, mucous membranes, and gastrointestinal tract.

**Medical Conditions Generally Aggravated by Exposure:** None presently known

**Chemicals Listed as Carcinogen or Potential Carcinogen:** None

**OSHA Permissible Exposure Limit (PEL):** 3 mg/m<sup>3</sup>

**ACCGIH Threshold Limit Value (TLV):** 3 mg/m<sup>3</sup>

### SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

**Inhalation:** Remove victim to fresh air

**Ingestion:** Drink water or milk and get medical attention immediately.

**Eyes:** Flush with water for 10 minutes. Call a physician.

**Skin:** Wash thoroughly with water.

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## SECTION V - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** NA  
**Flammable Limits in Air % By Volume:** NA  
**Extinguishing Media:** CO<sub>2</sub>, dry chemical  
**Auto Ignition Temperature:** None  
**Unusual Fire and Explosion Hazards:** None  
**Special Fire Fighting Procedures:** None

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## 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.

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## 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

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## SECTION VIII - CONTROL MEASURES

**Respiratory Protection (TYPE):** NIOSH approved respirator.  
**Ventilation:** Yes  
**Mechanical (General):** Yes  
**Local Exhaust:** Yes  
**Eye Protection:** Safety glasses  
**Protective Gloves:** Recommended, NIOSH approved  
**Other Protective Clothing or Equipment:** Rubber gloves and an apron

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## SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

**Boiling Point:** ~112°C/234°F  
**Specific Gravity (Water = 1):** 1.15  
**Vapor Pressure (mmHg):** Nil  
**Percent Volatile By Volume:** 54%  
**Vapor Density (Air = 1):** NA  
**Evaporation Rate (Butyl acetate = 1):** NA  
**Melting Point:** ~ 10°C/50°F  
**Solubility in Water:** Unlimited  
**Reactivity in Water:** None  
**Appearance and Odor:** Clear liquid, slight odor

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## 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:** HCl, Ammonium, Nitrogen Products, CO, CO<sub>2</sub> (above 260°C/500°F)

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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:** Corrosive Liquid, Acidic, Organic, NOS (Hydroxyacetic Acid)

**Hazard Class:** 8

**Identification Number:** UN3265

**Packing Group:** II

**Type D.O.T Label Required Information:** Corrosive

**Waste Disposal Method:** Dispose in Accordance with EPA Regulations.

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## 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.**

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## SECTION XVI - OTHER INFORMATION

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