# SAFETY DATA SHEET SUPERIOR NO. 144

DATE REVISED: January 1, 2016

**Product Name:** Superior No. Superior 144

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 = 0 REACTIVITY = 0

### **SECTION I - IDENTIFICATION**

Common Name: Superior 144

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): NA Label Elements (CLP): NA







Corrosive Irritant Environmentally Damaging

Precautionary Phrases: P264, P270, P273, P280, P301+P312, P310, P305+P351+P338, P330,

P337+P313, P301+P330+P331, P304+P340, P309+P311

Risk Phrases: R36/37/38

**Safety Phrases:** S-26, S-27, S-36/37/39, S-45

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

**Other Hazards:** None if used properly

### SECTION III- COMPOSITION INFORMATION

Components	<b>CAS Number</b>	%	OSHA PEL	H Phrases	
Zinc Chloride	7646-85-7	12-20	$1 \text{ mg/m}^3$	H302, H314, H319, H335, H400, H401	
Hydrochloric Acid	7647-01-0	5-10	$5 \text{ mg/m}^3$	H314, H335	

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: NA

Flammable Limits: NA

Extinguishing Media: Dry chemical, CO<sub>2</sub> foam

**Auto Ignition Temperature:** None

Special Fire Fighting Procedures: Normal cautions when dealing with chemicals.

Unusual Fire and Explosion Hazards: Will release small amounts of HCl upon decomposition

#### SECTION VI - ACCIDENTAL RELEASE MEASURES

**Steps to be Taken in Case Material is Spilled:** First neutralize with soda ash or sodium bicarbonate, dilute with water and dispose of in accordance with EPA regulations.

### SECTION VII - HANDLING AND STORAGE

**Storage Requirements:** Store in plastic containers in cool area, away from heat.

**Handling Precautions:** Safe precautionary practices to avoid spills and exposure to skin and fumes.

**Other Precautions:** NA

### 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:** 104°C/220°F

Specific Gravity (Water = 1): 1.30 Vapor Pressure (mm Hg): NA Percent Volatile by Volume: 64% Vapor Density (Air = 1): NA

**Evaporation Rate (Butyl Acetate = 1):** 0.6

**Melting Point:** 40 C

**Solubility in Water:** Unlimited **Reactivity in Water:** None

**Appearance and Odor:** White Gel

# **SECTION X - STABILITY AND REACTIVITY**

Stability: Product is stable (Conditions to Avoid): Metals

**Incompatibility:** Alkaline, strong oxidizing or reducing materials, cyanides or combustible materials.

Hazardous Decomposition Products: HCl, zinc chloride, zinc oxide, ammonium.

Hazardous Polymerization: Will not occur (Conditions to Avoid): Excessive heat or cold

# 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:** Corrosive Liquid, Acidic, Inorganic, N.O.S.

(Contains Zinc Chloride, Hydrochloric Acid)

**Hazard Class:** 8

**Identification Number:** UN3264

Packing Group: III

Type D.O.T Label Required Information: Corrosive

# **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. Dre manufacture Notification Requirements

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 R37	Irritating to eyes Irritating to respiratory system		
R38	Irritating to skin		
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		
H302	Harmful if swallowed		
H319	Causes serious eye irritation		
H401	Toxic to aquatic life		
H314	Causes severe skin burns and eye damage		
H335	May cause respiratory irritation		
H400	Very toxic to aquatic life		
P264	Wash thoroughly after handling		
P270	Do not eat, drink or smoke when using this product		
P273	Avoid release to the environment		
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+			
1300112011	contact lenses if present and easy to do – continue rinsing		
P310			
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		

# Further information:

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