



## MATERIAL SAFETY DATA SHEET

### SUPERIOR NO. 70-5

DATE REVISED: January 1, 2009

**Product Name:** Superior No. 70-5

**Manufacturer:** Superior Flux & Mfg. Co. 6615 Parkland Blvd. Cleveland, OH 44139

**Emergency Phone Number:** 1-800-424-9300 (CHEMTREC)

**Other Information Calls:** 800-654-9011

**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 = 1      REACTIVITY = 1**

#### SECTION I – IDENTIFICATION

**Common Name:** Superior No. 70-5

**Chemical Name:** NA

**Chemical Family:** Inorganic acid petrolatum based tinning flux

**CAS Number:** NA

**Formula:** See below

#### SECTION II - COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL
Zinc Chloride	7646-85-7	20-25	1 mg/m <sup>3</sup>
Tin	7440-31-5	5-10	2 mg/m <sup>3</sup>

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:** Pulmonary edema, abdominal pain, vomiting, eye damage and skin burn.

**Medical Conditions Generally Aggravated by Overexposure:** None presently known.

**Chemical Listed as a Carcinogen or Potential Carcinogen:** None

**OSHA Permissible Exposure Limit (PEL):** 1 mg/m<sup>3</sup>

**ACGIH Threshold Limit Value (TLV):** 1 mg/m<sup>3</sup>

#### 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:** Give water or milk. Get medical attention.

---

## **SECTION V - FIRE AND EXPLOSION HAZARD DATA**

**Flash Point:** 204°C/400°F

**Flammable Limits:** NA

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

**Auto Ignition Temperature:** NA

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

**Unusual Fire and Explosion Hazards:** Will not occur.

---

## **SECTION VI - ACCIDENTAL RELEASE MEASURES**

**Steps to be taken in case material is spilled:** Clean up all material 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.

---

## **SECTION VIII - CONTROL MEASURES**

**Respiratory Protection (TYPE):** NIOSH approved respirator.

**Ventilation:** Yes

**Mechanical (General):** Yes

**Local Exhaust:** Yes

**Eye Protection:** Safety glasses/goggles

**Protective Gloves:** Recommended, NIOSH approved

**Other protective clothing or equipment:** optional to user's preference

---

## **SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS**

**Boiling Point:** 337°C/639°F

**Specific Gravity (Water = 1):** NA

**Vapor Pressure (mm Hg):** NA

**Percent Volatile by Volume:** 8%

**Vapor Density (Air = 1):** >1

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

**Melting Point:** NA

**Solubility in Water:** Insoluble

**Reactivity in Water:** None

**Appearance and Odor:** Grey paste

---

## **SECTION X - STABILITY AND REACTIVITY**

**Stability:** Product is stable

**(Conditions to Avoid):** Metals

**Incompatibility:** NA

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>, HCl.

**Hazardous Polymerization:** Will not occur

**(Conditions to Avoid):** None

---

---

## 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:** NA

**Hazard Class:** NA

**Identification Number:** NA

**Packing Group:** NA

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

**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

**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.

---