# SAFETY DATA SHEET SUPERIOR No. 70-5

DATE REVISED: August 3, 2017

### **SECTION 1 -- IDENTIFICATION**

Product Name/Part number: Superior No. 70-5Recommended use: Tinning FluxManufacturer:Superior Flux & Mfg. Co.<br/>6615 Parkland Blvd<br/>Cleveland OH, 44139

**Emergency Contact:** CHEMTREC **Emergency Phone: 1-800-424-9300 For other info:** (440) 349-3000

### SECTION 2 - HAZARD(S) IDENTIFICATION

#### Classification of the substance or mixture

GHS Classification in accordance with OSHA HCS (29 CFR 1910)

Acute toxicity, Oral (Category 4) H302 Skin corrosion (Category 1B) H314 Serious eye damage (Category 1) H318 Acute aquatic toxicity (Category 1) H400

Chronic aquatic toxicity (Category 1) H410

See below for full text of H-Statement

**GHS Label Elements, including precautionary statements Pictogram(s):** 



Signal	Word:	Danger
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#### Hazard Statement(s)

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
**H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
**Not on label	due to H410 being more severe
Precau	tionary statement(s)
P260	Do not breath dust or mist
P264	Wash skin 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+P	330 IF SWALLOWED: Call a POISON CENTER if you feel unwell. Rinse mouth
P301+P330+P	331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340+P	310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor

#### (Precautionary phrases, continued)

P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call POISON CENTER/doctor

P363 Wash contaminated clothing before reuse.

- P391 Collect spillage
- P405 Store locked up

P501 Dispose of contents and/or container to an approved waste disposal plant

Hazards not otherwise classified or not covered by GHS: None

### **SECTION 3 – COMPOSITION INFORMATION**

Components	CAS Number	⁰∕₀
Zinc Chloride	7646-85-7	15-25
Tin	7400-31-5	3-8

Unlisted percentages are non-hazardous stabilizers, and water.

# **SECTION 4 – FIRST AID MEASURES**

Description of first aid measures

General advice:	Consult a	physician.	Show	this	safety	data	sheet	to	the	doctor	in
attendance. Move out of dangerous area.											

- **Inhalation:** If breathed in, move to fresh air. If not breathing, give artificial respiration. Consult a physician.
- **Eyes:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
- **Skin:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
- **Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most Important Symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2 (labeling)

**Medical Conditions Generally Aggravated by Exposure:** Any weakness of the lungs, kidneys or liver will be aggravated.

### **SECTION 5 – FIREFIGHTING MEASURES**

Suitable Extinguishing Media: Use dry chemical, CO<sub>2</sub> foam

Special Hazards: No data available

**Special protective actions for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

- **Personal Precautions and Equipment and emergency procedures:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. *See section 8 for personal protection.*
- **Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- In Case Material is spilled: Contain spillage, then collect by wet-brushing and place in container for disposal according to local regulations.

# **SECTION 7 - HANDLING AND STORAGE**

- **Precautions for safe handling:** Avoid inhalation of vapor or mist. Keep tightly closed in a dry and well-ventilated place.
- **General Precautions:** Do not eat, drink, or smoke while using this product. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

For full precaution statements see Section 2

**Storage Requirements:** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

# SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION CONTROL PARAMETERS

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

- **Engineering Controls:** Use local exhaust ventilation to maintain air concentrations of vapors and fumes below occupational exposure standards.
- Special Engineering Control Needs: No data available
- **Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate, use a respirator with multi-purpose combination (USA) or ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face respirator. Use respirators and components tested an approved under appropriate government standards such as NIOSH (USA) or CEN (EU).
- **Protective Gloves:** Handle with gloves. (Nitrile Rubber recommended) Gloves must be inspected prior to use. Use proper glove removal techniques (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good lab practices. Wash and dry hands after handling.
- **Eye Protection:** Use tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (USA) or EN 166 (EU)
- **Body Protection:** Complete suit protecting against chemical, flame retardant protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

# **SECTION 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS**

Appearance Odor **Odor threshold** рН **Melting point/Freezing point** Initial boiling point and boiling range Flash point **Evaporation rate** Flammability (Solid, gas) Upper flammability or explosive limits Lower flammability or explosive limits Vapor pressure Vapor density **Relative density Solubility(ies)** Partition coefficient: n-octanol/water Auto-ignition temperature **Decomposition temperature** Viscosity

Yellow paste None No data available Not applicable No data available  $337^{\circ}C / 639^{\circ}F$  (literary) No data available Not applicable No data available Upper explosion limit: No data available Lower explosion limit: No data available No data available No data available No data available Insoluble No data available No data available No data available No data available

# **SECTION 10 - STABILITY AND REACTIVITY**

Reactivity: No data available
Stability: Product is stable under recommended storage conditions
Possibility of hazardous reactions: No data available
Conditions to Avoid: Excessive heat or cold
Incompatibility: Alkaline, strong oxidizing or reducing materials, cyanides or combustible materials.
Hazardous Decomposition Products Hydrogen chloride gas, zinc chloride, zinc oxide, ammonium (Under fire conditions)
In the event of fire: See Section 5

### **SECTION 11 - TOXICOLOGICAL INFORMATION**

**Likely Route(s) of Exposure:** Inhalation, ingestion, skin and eye contact **Symptoms (Immediate and Chronic) from** 

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Acute	Exposure	No data available		
Prolo	nged or Repeated Exposure	No data available		
Measure(s) o	f toxicity			
No da	ta available			
IARC:	No component of this produc	t is present at levels greater than or equal to $0.1\%$		
	identified as probable, possib	le or confirmed human carcinogen by IARC.		
NTP:	P: No component of this product is present at levels greater than or equal to 0.1%			
	identified as a known or antic	cipated carcinogen by NTP.		
<b>OSHA:</b>	No component of this produc	t is present at levels greater than or equal to $0.1\%$		
	identified as a carcinogen or	potential carcinogen by OSHA		

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#### **SECTION 12 - ECOLOGICAL INFORMATION**

Toxicity	
No data available	
Persistence and degradabil	ity
No data available	-
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

ProductOffer surplus and non-recyclable solutions to a licensed disposal company.<br/>Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging Dispose of as unused product.

#### **SECTION 14- TRANSPORTATION**

D.O.T. (USA) – Ships as non-hazardous goods Proper Shipping Name: N/A Identification Number: N/A Packing Group: N/A Special Precautions to Note: N/A N/A Hazard Class(es): N/A Reportable Quantity (RQ): N/A Environmental Hazards Marine Pollutant? N/A

### **SECTION 15 - REGULATORY INFORMATION**

SARA 302 Components	No Chemicals in this material are subject to the reporting			
	requirement of SARA Title III, Section 302.			
SARA 313 Components	The following components are subject to reporting levels			
	established by SARA Title III, Section 313			
	CAS No.	<b>Revision Date:</b>		
Zinc chloride	7646-85-7	03/01/2007		
SARA 311/312 Hazards	Acute Health Hazard			

#### **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### THIS PRODUCT IS ROHS 2 COMPLIANT

### **SECTION 16 - OTHER INFORMATION**

#### HMIS Rating

Health	2
Flammability	1
Reactivity	1

#### **Further information:**

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. The above information does not represent any guarantee of the properties of the product. It is believed to be correct, but does not purport to be all inclusive and should be used only as a guide. Reasonable care has been taken in the preparation of this material, and is based on the present state of our knowledge.

Superior Flux & Mfg. Co. shall not be held liable for any damage resulting from handling or from contact with the above product. 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.* 

#### **Reference**(s):

Sigma-Aldrich – SDS for Zinc Chloride  $\geq 98\%$ 

#### **Preparation information**

Superior Flux & Mfg. Co. 440-349-3000

Version 3.1 Revision Date: 08/03/2017