# SAFETY DATA SHEET SUPERIOR No. 70-5

DATE REVISED: January 1, 2018

# **SECTION 1 -- IDENTIFICATION**

**Product Name/Part number:** Superior No. 70-5

**Recommended use:** Tinning Flux

Manufacturer: Superior Flux & Mfg. Co. Emergency Contact: CHEMTREC

6615 Parkland Blvd **Emergency Phone: 1-800-424-9300** Cleveland OH, 44139 **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

**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

# **Precautionary 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+P330 IF SWALLOWED: Call a POISON CENTER if you feel unwell. Rinse

mouth

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water.

P304+P340+P310 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	%
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** Yellow paste

**Odor** None

Odor threshold
PH
Not applicable
Not available
Not applicable
No data available
No data available
No data available
337°C / 639°F (literary)

Flash point

Evaporation rate
Not applicable
Flammability (Solid, gas)
No data available

Upper flammability or explosive limits

Upper explosion limit: No data available

Lower flammability or explosive limits

Lower explosion limit: No data available

Vapor pressureNo data availableVapor densityNo data availableRelative densityNo data available

Solubility(ies) Insoluble

Partition coefficient: n-octanol/waterNo data availableAuto-ignition temperatureNo data availableDecomposition temperatureNo data availableViscosityNo 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** 

Acute Exposure No data available Prolonged or Repeated Exposure No data available

Measure(s) of toxicity

No data available

**IARC:** No component of this product is present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

**NTP:** No component of this product is present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product is present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by OSHA

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

**Toxicity** 

No data available

Persistence and degradability

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

**Product** Offer surplus and non-recyclable solutions to a licensed disposal company.

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 **Hazard Class(es):** N/A

Packing Group: N/A Reportable Quantity (RQ): N/A

**Special Precautions to Note:** Environmental Hazards

N/A 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.** Revision Date: 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**

Zinc chloride

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 ≥ 98%

#### **Preparation information**

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

Version 3.1

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