# SAFETY DATA SHEET SUPERIOR TWF

DATE REVISED: January 2, 2018

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

Product Name/Part number: Superior TWFRecommended use:Tube welding paste fluxManufacturer:Superior Flux & Mfg. Co.6615 Parkland BlvdCleveland 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)

Skin irritation (Category 2)H315Serious eye damage (Category 1)H319Specific target organ toxicity – Single exposure, Respiratory system (Category 3)

H335

Reproductive toxicity (Category 2) H361

See below for full text of H-Statement

#### GHS Label Elements, including precautionary statements **Piotegram**(a):

Pictogram(s):



Signal Word: Warning

#### Hazard Statement(s)

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H361 Suspected of damaging fertility or the unborn child

#### **Precautionary statement(s)**

P202 Do not handle until all safety precautions have been read and understood P261 Do not breathe dust or fumes P264 Wash skin thoroughly after handling Wear protective gloves or protective clothing and eye protection P280 IF ON SKIN: Wash with plenty of soap and water P302+P352 IF INHALED: Remove person to fresh air and keep comfortable for P304+P340+P312 breathing. Call a doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove P305+P351+P338 contact lenses, if present and easy to do. Continue rinsing. P308+P313 If exposed or concerned: Get medical advice P332+P313 If skin irritation occurs: Get medical advice If eye irritation persists: Get medical advice P337+P313 P405 Store locked up P501 Dispose of contents or container to an approved waste disposal plant

#### Hazards not otherwise classified or not covered by GHS:

<u>Boric acid</u> Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

## **SECTION 3 – COMPOSITION INFORMATION**

Components	CAS Number	%
Potassium Flurohydroborate	12228-71-6	20-40
Potassium Tetraborate	1332-77-0	15-25
Boric acid	10043-35-3	35-40
Unlisted percentages are non-hazardous stab	bilizers, 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.

Skin: Wash off with soap and plenty of water. Consult a physician.

**Ingestion:** 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)

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

Suitable Extinguishing Media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special Hazards: Will release small amounts of borane/boron oxides

Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary Further information No data available

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

**Personal Precautions and Equipment and emergency procedures:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. *See section 8 for personal protection.* 

Environmental Precautions: Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Mop or sweep up and shovel. Keep in suitable, closed containers

for disposal.

For disposal, see section 13.

## **SECTION 7 - HANDLING AND STORAGE**

**Precautions for safe handling:** Avoid contact with skin, eyes, and clothing. Wash thoroughly after use. Provide appropriate exhaust ventilation.

For precautions, see section 2.

**Conditions for safe storage, including any incompatibilities** Keep in plastic containers tightly closed in a cool area. Do not store in glass or porcelain.

For full precaution statements see Section 2

### **SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

OSHA Permissible Exposure Limit (PEL):	$2.5 \text{ mg/m}^3$
ACGIH Threshold Limit Value (TLV):	$2.5 \text{ mg/m}^{3}$

- **General Precautions:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.
- **Engineering Controls:** Use local exhaust ventilation to maintain air concentrations of dust, vapors and fumes below occupational exposure standards.
- **Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air 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 appropriately fitting safety goggles with side-shields conforming to EN166.. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (USA) or EN 166 (EU)
- **Body Protection:** Impervious clothing The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Control of environmental exposure: Prevent further leakage or spillage if safe to do so.

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 (Water = 1)** Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature **Decomposition temperature** Viscosity

White paste No data available No data available 8.12 @ 20-25°C Approx. 500°C No data available Not applicable No data available No data available Upper explosion limit: Not applicable Lower explosion limit: Not applicable No data available No data available 1.6 Soluble in water 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, exposure to moisture **Incompatible Material:** Potassium, acid anhydrides, strong oxidizers **Hazardous Decomposition Products** No data available *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 ExposureNo 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.

### **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)

Non-hazardous

## **SECTION 15 - REGULATORY INFORMATION**

SARA 302 ComponentsNo Chemicals in this material are subject to the reporting<br/>requirement of SARA Title III, Section 302.SARA 313 ComponentsNo chemicals in this material are subject to the reporting<br/>requirement of SARA Title III, Section 313.SARA 311/312 HazardsAcute 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**

#### **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.

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#### **Preparation information** Superior Flux & Mfg. Co. 440-349-3000