### SAFETY DATA SHEET SUPERIOR NO. 29

DATE REVISED: October 3, 2018

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

Product Name/Part number: Superior No. 29Recommended use:Silver Brazing Liquid 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)

Acute toxicity, Oral (Category 5)H303Eye irritant (Category 2)H319Reproductive toxicity (Category 2)H361

See below for full text of H-Statement

GHS Label Elements, including precautionary statements

Pictogram(s):



#### Signal Word: Warning

Hazard Statement(s)

H303	May be harmful if swallowed
H319	Causes serious eye damage

H361 Suspected of damaging fertility or the unborn child

\*\*May be omitted from label due to presence of stricter statement.

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

Wash any exposed skin thoroughly after handling			
Wear protective gloves, eye protection, and face protection			
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting			
IF ON SKIN (or hair): Take off immediately all contaminated clothing.			
Rinse skin with water or shower.			
IF INHALED: Remove person to fresh air and keep comfortable for			
breathing. Immediately call a POISON CENTER or doctor			
IF IN EYES: Rinse cautiously with water for several minutes. Remove			
contact lenses, if present and easy to do. Continue rinsing.			
If exposed or concerned: Get medical advice or attention			
Store locked up			
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	<b>CAS Number</b>	%
Sodium tetraborate	1303-96-4	1-10
Boric acid	10043-35-3	1-10
Unlisted percentages are non-hazardo	ous 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: No data available

Special Hazards: No data available

**Special protective actions for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary. Use normal cautions when dealing with chemicals

#### **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. Evacuate personnel to safe areas. *See section 8 for personal protection.* 

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

In Case Material is spilled: First, neutralize with soda ash or sodium bicarbonate. Dilute with water and place in container for disposal according to local regulations.

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

Precautions for safe handling: Avoid inhalation of vapor, fumes, or mist.

**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:** Store in plastic containers in cool area. Keep container away from excessive heat.

# SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION<br/>CONTROL PARAMETERSOSHA Permissible Exposure Limit (PEL):10 mg/m³ACGIH Threshold Limit Value (TLV):10 mg/m³

- **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 appropriately 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:** Chemical resistant rubber apron if desired. 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** рH **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
- Orange, slightly hazy liquid None No data available 7.50 0°C/32°F 104°C/220°F Not applicable No data available Not applicable Upper explosion limit: Not applicable Lower explosion limit: Not applicable No data available No data available 1 1 1 0 Miscible in water No data available Not applicable 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, metals, strong oxidizers
Incompatibility: Alkaline, strong oxidizing or reducing materials, cyanides, or combustible materials.
Hazardous Decomposition Products Carbon oxides (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 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- TRANSPORTATIOND.O.T. (USA)Not regulatedIATANot regulated

#### **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	No chemicals in this material are subject to the reporting
	requirement of SARA Title III, Section 313.
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 3 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.

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.* 

**Preparation information** Superior Flux & Mfg. Co.