# SAFETY DATA SHEET **SUPERIOR No. 590**

DATE REVISED: October 14, 2019

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

Product Name/Part number: Superior No. 590

Recommended use: Inorganic acid flux

Superior Flux & Mfg. Co. Manufacturer: **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) Skin corrosion (Category 1B)

Serious eye damage (Category 1)

Specific target organ toxicity - Single exposure, Respiratory system (Category 3)

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
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H411	Toxic to aquatic life with long-lasting effects

<sup>\*\*</sup>May be omitted from label due to presence of stricter statement.

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

P261 Avoid breathing fumes, gas, mist, vapours, or spray

P264 Wash skin thoroughly after handling

P271 Use only outdoors or in a well-ventilated area

P273Avoid release to the environment

P280 Wear protective gloves, protective clothing and face protection

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 or shower

P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

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 a POISON CENTER or doctor.

P363 Wash contaminated clothing before reuse

P403+P233 Store in a well-ventilated place. Keep container tightly closed

P405 Store locked up

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

Hazards not otherwise classified or not covered by GHS: None

#### SECTION 3 – COMPOSITION INFORMATION

ComponentsCAS Number%Hydrobromic Acid10035-10-610-15

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: No data available

Special Hazards: Will release small amounts of hydrobromic acid

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. 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. Keep closed in a dry and well-ventilated place. Keep cool.

**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 CONTROL PARAMETERS

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

**Odor** None

Odor threshold

pH

No data available

No data available

Melting point/Freezing point ~0°C/32°F

Initial boiling point and boiling range~104°C/220°FFlash pointNot applicableEvaporation rateNo data availableFlammability (Solid, gas)Not applicable

**Upper flammability or explosive limits**Upper explosion limit: Not applicable

Lower flammability or explosive limits Lower explosion limit: Not applicable

Vapor pressureNo data availableVapor densityNo data available

Relative density (Water = 1) 1.360

Solubility(ies)Miscible in waterPartition coefficient: n-octanol/waterNo data availableAuto-ignition temperatureNot applicableDecomposition 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, metals, strong oxidizers

**Incompatibility:** No data available

Hazardous Decomposition Products Small amounts of hydrobromic acid, nitrogen oxides

(NOx), 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 Exposure**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)

Proper Shipping Name: Corrosive liquid, NOS (hydrobromic acid, zinc bromide)

**Identification Number:** UN1760 **Hazard Class(es):** 8

Packing Group: II Reportable Quantity (RQ): 5,000 Special Precautions to Note: Environmental Hazards: N/A

Type D.O.T. Label Required Information: Corrosive

#### **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.

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#### **Preparation information**

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