## SAFETY DATA SHEET SUPERIOR NO. 1452-SFM

DATE REVISED: April 8, 2020

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

**Product Name/Part number:** Superior No. 1452-SFM **Recommended use:** Organic acid non-halide soldering 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)

Acute toxicity, Inhalation (Category 4)

Acute toxicity, Dermal (Category 4)

Skin corrosion (Category 1B)

H314

Serious eye damage (Category 1)

H318

Specific target organ toxicity – Single exposure, Respiratory system (Category 3) H335

Acute aquatic toxicity (Category 2) H402 Chronic aquatic toxicity (Category 3) H412

See below for full text of H-Statement

### GHS Label Elements, including precautionary statements

**Pictogram(s):** 



Signal Word: Danger

### **Hazard Statement(s)**

H302+H332+H312 Harmful if swallowed, inhaled or in contact with skin

H314 Causes severe skin burns and eye damage

\*\*H318 Causes serious eye damage H335 May cause respiratory irritation

\*\*H402 Harmful to aquatic life

H412 Harmful to aquatic life with long lasting effects

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

P261	Avoid breathing fumes, gas, mist, vapors, or spray	
P264	Wash skin thoroughly after handling	
P270	Do not eat, drink, or smoke when using this product.	
P271	Use only outdoors or in a well-ventilated area	
P273	Avoid release to the environment	
P280	Wear protective gloves, protective clothing, and eye or face protection.	
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P301+P312+P330+P331 IF SWALLOWED: Call a POISON CENTER if you feel unwell.

Rinse mouth. Do NOT induce vomiting.

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

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+P223+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

P405 Store locked up

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

### Other hazards - None

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

Components	CAS No.	%
Hydroxyacetic Acid	79-14-1	75 - 99
Monoethanolamine	141-43-5	1 - 25

### **SECTION 4 – FIRST AID MEASURES**

Description of first aid measures

**General:** Move out of dangerous area. Show this safety data sheet to the doctor in

attendance.

**Inhalation:** If breathed in, move to fresh air. If not breathing, give artificial respiration. Get

medical advice.

**Skin:** Take off contaminated clothing and shoes immediately. Wash off with soap and

plenty of water. Consult a physician.

**Eves:** Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty

of water for at least 15 minutes and 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)

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

Suitable Extinguishing Media: Use carbon dioxide or dry chemical

Special Hazards: No data available

(Special) Advice for Firefighters: Wear self-contained breathing apparatus for firefighting if

necessary. Use water spray to cool unopened containers

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions and Equipment and emergency procedures:** Use personal protective equipment. Avoid breathing gas, vapors or mist. 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. Do not let product enter drains. Discharge into the environment must be avoided.

**In Case Material is spilled:** Contain spillage, and then collect and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal. *See section 13 for disposal* 

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

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from oxidizing agents.

For full precaution statements see Section 2

**Storage Requirements:** Keep container tightly closed in a cool, dry and well-ventilated area. 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):** 3 mg/m<sup>3</sup> **ACGIH Threshold Limit Value (TLV):** 3 mg/m<sup>3</sup>

**Engineering Controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

- **Eye/Face Protection:** Tightly fitting safety goggles. Faceshield. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
- **Skin Protection:** Handle with gloves. 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.
- **Body Protection:** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- **Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges 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 and approved under appropriate government standards such as NIOS (US) or CEN (EU).
- **Control of Environmental Exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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 to amber liquid

**Odor** Slight

Odor thresholdNo data availablepHNo data availableMelting point/Freezing point10°C/50°F (approx.)Initial boiling point and boiling range112°C/234°F (approx.)

Flash point

Evaporation rate (Butyl Acetate = 1)

Flammability (Solid, gas)

Upper flammability or explosive limits

Lower flammability or explosive limits

Not applicable

No data available

Vapor density (Air = 1)

No data available

Relative density (Water = 1) 1.280

Solubility(ies)Soluble in waterPartition coefficient: n-octanol/waterNo data availableAuto-ignition temperatureNot applicableDecomposition temperatureNo data availableViscosityNot applicable

### **SECTION 10 - STABILITY AND REACTIVITY**

**Reactivity:** No data available

**Stability:** Product is stable under recommended storage and handling conditions **Possibility of hazardous reactions:** Hazardous polymerization will not occur

Conditions to Avoid: Extreme heat

**Incompatibility:** Strong oxidizers, metals, rubber

(Hazardous) Decomposition Products Under fire conditions: Carbon oxides (CO, CO<sub>2</sub>),

Nitrogen oxides (NO<sub>x</sub>)

*In the event of fire: See Section 5* 

### SECTION 11 - TOXICOLOGICAL INFORMATION

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

Acute Toxicity: No data available

**Skin Corrosion/Irritation:** No data available **Serious Eye Damage/Irritation:** No data available

Respiratory or Skin Sensitization: No data available Germ Cell Mutagenicity: Not classified

**Carcinogenicity**:

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

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

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

identified as a carcinogen or potential carcinogen by ACGIH.

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

identified as a carcinogen or potential carcinogen by OSHA

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): No data available Specific Target Organ Toxicity (Repeated Exposure): No data available

**Aspiration Hazard:** Not classified

**Additional information:** burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

ToxicityNo data availablePersistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data available

Results of PBT and vPvB assessment PBT/vPvB assessement not available as chemical

safety assessment not required/not conducted

Other adverse effects Toxic to aquatic life. 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.** (US)

Proper Shipping Name: Corrosive Liquid, Acidic, Organic, NOS (Contains Glycolic Acid)

**Identification Number:** UN3265 **Hazard Class:** 8

Packing Group: II

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

**SARA 302 Components** No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 Components This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards** Fire hazard, Acute health hazard, Chronic health hazard

**Massachusetts Right to Know Components** 

<u>Component(s)</u> <u>CAS No.</u> <u>Revision Date</u> Ethanolamine 141-43-5 2007-03-01

Pennsylvania Right to Know Components

<u>Component(s)</u> <u>CAS No.</u> <u>Revision Date</u> Ethanolamine 141-43-5 2007-03-01

**New Jersey Right to Know Components** 

<u>Component(s)</u> <u>CAS No.</u> <u>Revision Date</u> Ethanolamine 141-43-5 2007-03-01

California Proposition 65 Components This product does not contain any chemicals known

to State of California to cause cancer, birth defects,

or any other reproductive harm.

### **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*.

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

Sigma Aldrich SDS - Monoethanolamine

### **Preparation information**

Superior Flux & Mfg. Co.

440-349-3000