

# SAFETY DATA SHEET

## SUPERIOR NO. 30

DATE REVISED: February 4, 2020

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### SECTION 1 -- IDENTIFICATION

**Product Name/Part number:** Superior No. 30

**Recommended use:** General Purpose, VOC-Free Organic Acid Soldering Flux

**Manufacturer:** Superior Flux & Mfg. Co.  
6615 Parkland Blvd  
Cleveland OH, 44139

**Emergency Contact:** CHEMTREC  
**Emergency Phone: 1-800-424-9300**  
**For other info:** (440) 349-3000

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### SECTION 2 – HAZARD(S) IDENTIFICATION

**Classification of the substance or mixture**

**GHS Classification in accordance with OSHA HCS (29 CFR 1910)**

Acute toxicity, Dermal (Category 4) H312

Serious eye damage (Category 2B) H320

*See below for full text of H-Statement*

**GHS Label Elements, including precautionary statements**

**Pictogram(s):**



**Signal Word:** Warning

**Hazard Statement(s)**

H312 Harmful in contact with skin

H320 Causes eye irritation

**Precautionary statement(s)**

P264 Wash skin thoroughly after handling

P280 Wear protective gloves and eye protection

P302+P352 IF ON SKIN: wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor if you feel unwell.

P337+P313 IF eye irritation persists: Get medical advice or attention

P363 Wash contaminated clothing before reuse

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

**Other hazards** - None

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### SECTION 3 – COMPOSITION INFORMATION

Components	CAS No.	EC No.	%
Glutamic acid hydrochloride	138-15-8	205-315-9	1-5
Water	7732-18-5	231-791-2	95-99

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### SECTION 4 – FIRST AID MEASURES

#### Description of first aid measures

- General:** If you feel unwell, seek medical advice. Show this safety data sheet where possible. Never give anything by mouth to an unconscious person.
- Inhalation:** If breathed in, move to fresh air. If not breathing, give artificial respiration. Get medical advice.
- Skin:** Take off contaminated clothing and shoes. Wash off with soap and plenty of water. Consult a physician. Wash contaminated clothing before reuse.
- Eyes:** Rinse cautiously with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. 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)*

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### SECTION 5 – FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Special Hazards:** Product is not flammable, nor is it explosive. Hazardous reactions will not occur under normal condition.

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

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### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions and Equipment and emergency procedures:** Use personal protective equipment. Avoid breathing 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.

**In Case Material is spilled:** Clear up spills immediately and dispose of waste safely. Keep and place in suitable, closed containers for disposal according to local regulations.

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## SECTION 7 - HANDLING AND STORAGE

**Precautions for safe handling:** Avoid formation of aerosols. Provide appropriate exhaust ventilation at places where mist or fumes are formed.

*For full precaution statements see Section 2*

**Storage Requirements:** Keep container tightly closed in a dry, cool, and well-ventilated area. Keep container closed when not in use.

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## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION CONTROL PARAMETERS

**OSHA Permissible Exposure Limit (PEL):** Mixture contains no substances with occupational exposure limit values.

**ACGIH Threshold Limit Value (TLV):** Mixture contains no substances with occupational exposure limit values.

**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:** Safety glasses or safety goggles – 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:** The type of protective equipment must be selected according to the concentration and amount of the substance at the specific workplace.

**Respiratory Protection:** Respiratory protection not required. For nuisance exposures, use type OV/AG (US) or type ABEK (EU EN14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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.

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## SECTION 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

<b>Appearance</b>	Blue liquid
<b>Odor</b>	Citrus
<b>Odor threshold</b>	No data available
<b>pH</b>	1.125±0.375
<b>Melting point/Freezing point</b>	0°C/32°F
<b>Initial boiling point and boiling range</b>	104°C/220°F
<b>Flash point</b>	Not applicable
<b>Evaporation rate (Butyl Acetate = 1)</b>	0.9
<b>Flammability (Solid, gas)</b>	Not applicable
<b>Upper flammability or explosive limits</b>	Not applicable
<b>Lower flammability or explosive limits</b>	Not applicable
<b>Vapor pressure</b>	No data available
<b>Vapor density (Air = 1)</b>	No data available
<b>Relative density (Water = 1)</b>	1.040 ±0.010
<b>Solubility(ies)</b>	Miscible in water
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Viscosity</b>	Not applicable

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## SECTION 10 - STABILITY AND REACTIVITY

**Reactivity:** Will not occur under normal conditions

**Stability:** Product is stable under recommended storage and handling conditions

**Possibility of hazardous reactions:** Hazardous polymerization will not occur

**Conditions to Avoid:** No data available

**Incompatibility:** Strong oxidizers

### **(Hazardous) Decomposition Products**

Hazardous decomposition products formed under fire conditions. Carbon oxides (CO, CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), small amounts of hydrogen chloride gas.

Other decomposition products: No data available

*In the event of fire: See Section 5*

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## 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

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

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## 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

**Results of PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects** No data available

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## 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. Show them this safety data sheet.

**Contaminated packaging** Dispose of as unused product.

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## SECTION 14- TRANSPORTATION

**D.O.T. (US)** Not dangerous goods

**IMDG** Not dangerous goods

**IATA** Not dangerous goods

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## SECTION 15 - REGULATORY INFORMATION

<b>SARA 302 Components</b>	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
<b>SARA 313 Components</b>	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.
<b>SARA 311/312 Hazards</b>	Acute health hazard
<b>Massachusetts Right to Know Components</b>	No components are subject to the Massachusetts Right to Know Act.
<b>Pennsylvania Right to Know Components</b>	
Component(s)	<u>CAS No.</u>
Glutamic acid hydrochloride	138-15-8
<b>New Jersey Right to Know Components</b>	
Component(s)	<u>CAS No.</u>
Glutamic acid hydrochloride	138-15-8
<b>California Proposition 65 Components</b>	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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## 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

### Preparation information

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

Version 2.2

Revision Date: 11/09/2017

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