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## 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. If rash develops, consult a physician.
- Ingestion:** Get medical attention immediately

### 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:** None necessary

**Special Hazards:** Not applicable

**Special protective actions for firefighters:** Normal cautions when dealing with chemicals

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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions and Equipment and emergency procedures:** Use personal protective equipment. Avoid breathing vapors, mist, or gas.

*See section 8 for personal protection.*

**In Case Material is spilled:** Contain spillage with absorbent inert material such as sand, soil, or oil dry, and then place in chemical waste container. Wash spill area with plenty of water.

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## SECTION 7 - HANDLING AND STORAGE

**Precautions for safe handling:** Standard lab practices to avoid spills and exposure to skin or eyes.

*For full precaution statements see Section 2*

**Storage Requirements:** Store in plastic containers in cool area, away from heat.

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

**OSHA Permissible Exposure Limit (PEL):** No data available

**ACGIH Threshold Limit Value (TLV):** No data available

**Engineering Controls:** Use local exhaust ventilation to maintain air concentrations of vapors and fumes below occupational exposure standards.

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate, use a full-face 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 supplied air respirator. Use respirators and components tested and 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:** Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (USA) or EN 166 (EU)

**Body Protection:** Impervious clothing, flame retardant antistatic protective clothing. 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.

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## SECTION 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

<b>Appearance</b>	Dark blue liquid
<b>Odor</b>	Mild
<b>Odor threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point/Freezing point</b>	0°C/32°F (approx..)
<b>Initial boiling point and boiling range</b>	104°C / 220°F
<b>Flash point</b>	Not applicable
<b>Evaporation rate</b>	No data available
<b>Flammability (Solid, gas)</b>	Not applicable
<b>Upper flammability or explosive limits</b>	Upper explosion limit: N/A
<b>Lower flammability or explosive limits</b>	Lower explosion limit: N/A
<b>Vapor pressure</b>	No data available
<b>Vapor density (Air = 1)</b>	No data available
<b>Relative density (Water = 1)</b>	1.150 @ 20-25°C
<b>Solubility(ies)</b>	Completely miscible in water
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available

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## 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:** No data available

**Incompatibility:** Strong oxidizers, metals

**Hazardous Decomposition Products** Carbon oxides (Under fire conditions)

*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

**Symptoms (Immediate and Chronic) from**

**Acute Exposure** No data available

**Prolonged or Repeated Exposure** No data available

**Measure(s) of toxicity**

No data available

**Is this chemical listed in the National Toxicology Program (NTP) Report on Carcinogens?**

No data available

**Is this chemical found to be a potential carcinogen in the International Agency for**

**Research on Cancer (IARC) Monographs or by the Occupational Safety and Health Administration (OSHA)** No data available

**Additional information**

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

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential** No data available

**Mobility in soil** No data available

**Other adverse effects**

**Hazard to ozone layer:** No data available

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## SECTION 13 - DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Product** Contact a licensed professional waste disposal service to dispose of this material.

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

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## SECTION 14- TRANSPORTATION

### D.O.T. (USA)

**Proper Shipping Name:** Bisulphates, Aqueous Solution

**Identification Number:** UN2837

**Hazard Class:** 8

**Packing Group:** II

**Reportable Quantity (RQ):** 5,000 lbs

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## 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 312/313 Components** No Chemicals in this material are subject to the reporting requirement of SARA Title III, Section 312/313.

### 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 AND REACH COMPLIANT**

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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.

### Reference(s):

Sigma-Aldrich – Formatting

### Preparation information

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

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