

MATERIAL SAFETY DATA SHEET

Acid Buffer

Section I: MANUFACTURER'S NAME, ADDRESS, AND CONTACT INFORMATION

Seachem Laboratories, Inc.
1000 Seachem Drive
Madison, GA 30650

Emergency Telephone Number: 706-343-6060
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SECTION II: CHEMICAL INGREDIENTS/IDENTITY INFORMATION

| Components (Chemical Identity; Common Names (s)) | OSHA PEL | ACGIH TLV | Other Limits |
|--|----------|--|--------------|
| Proprietary powdered bisulfate salts | NA | 5 mg/m ³ time weighted avg. | NA |

SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

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| Boiling Point | NA | Specific Gravity (H ₂ O = 1) | 1.48 |
| Vapor Pressure (mm Hg) | NA | Melting Point | 302 ⁰ F |
| Vapor Density (AIR = 1) | NA | Evaporation Rate (Butyl Acetate = 1) | NA |
| Solubility in Water | Very soluble | Appearance and Odor | Coarse white granules, slight odor of sulfur dioxide |

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

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| Flash Point (Method Used) | NA |
| Flammable Limits | NA |
| LEL | NA |
| UEL | NA |
| Extinguishing Media | Water, dry chemical for surrounding fire |
| Special Fire Fighting Procedures | Do not allow water runoff to enter sewers or waterways. |
| Unusual Fire and Explosion Hazards | Burning may produce oxides of sulfur. |

SECTION V: REACTIVITY DATA

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| Stability | Stable under normal conditions of use |
| Conditions to Avoid | Incompatibilities |
| Incompatibility (Materials to Avoid) | Acids, alkalis, sodium nitrite, oxidizers, aluminum powder |
| Hazardous Decomposition or Byproducts | Burning may produce oxides of sulfur. |
| Hazardous Polymerization | Will Not Occur |

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| Polymerization Conditions to Avoid | None |
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SECTION VI: HEALTH HAZARD DATA

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| Route(s) of Entry: Ingestion, skin, eyes, inhalation |
| Health Hazards (Acute): Oral doses may cause irritation to the gastrointestinal tract. Estimated fatal dose is 10 grams. Skin and eye irritation are likely. Prolonged eye contact may cause irreversible eye damage. Inhalation may cause coughing or difficulty in breathing. |
| Carcinogenicity: Not a known carcinogen. IARC category 3. |
| Signs and Symptoms of Exposure: ingestion-nausea, abdominal pain, vomiting; skin, eyes-reddening and irritation; inhalation-coughing |
| Medical Conditions Generally Aggravated by Exposure: Sensitivity to sulfites. |
| Emergency and First Aid Procedures: Ingestion-Induce vomiting, call a physician. Skin, eyes-Flush with water for 15 minutes. Get medical attention. Inhalation-Remove to fresh air. |

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

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| Steps to Be Taken in Case Material is Released or Spilled: Sweep up and place in waste container. Spray residue with water. |
| Waste Disposal Method: No special disposal method required, except that it be in accordance with current local authority regulations. |
| Precautions to Be Taken in Handling and Storing: Store dry until ready to use. |
| Other Precautions: All materials should be handled under good housekeeping practices. |

SECTION VIII: CONTROL MEASURES

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| Respiratory Protection | Recommended |
| Ventilation | Local or general |
| Protective Gloves | Recommended |
| Eye Protection | Recommended |
| Other Protective Clothing or Equipment | Impervious clothing |
| Work/Hygienic Practices | Good housekeeping practices |

ABBREVIATIONS

ACGIH: The American Conference of Governmental Industrial Hygienists, Inc.

IARC: The International Agency for Research on Cancer

LEL: Lower Explosive Limit (or Lower Flammable Limit)

NA: Not Applicable

ND: Not Determined

NTP: The National Toxicology Program

OSHA: The Occupational Health and Safety Administration

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

UEL: Upper Explosive Limit (or Upper Flammable Limit)

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