

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
Telephone Number for Information: 706-343-6060
Date Prepared: 03 July 2006

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

Boiling Point	NA	Specific Gravity (H ₂ O = 1)	1.48
Vapor Pressure (mm Hg)	NA	Melting Point	302 ^o 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

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

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

Polymerization Conditions to Avoid	None
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SECTION VI: HEALTH HAZARD DATA

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

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

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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