

MATERIAL SAFETY DATA SHEET

Synthesis

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
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SECTION II: CHEMICAL INGREDIENTS/IDENTITY INFORMATION

| Components (Chemical Identity; Common Names (s)) | OSHA PEL | ACGIH TLV | Other Limits |
|---|----------|-----------|--------------|
| Aqueous solution of ammonium nitrate and urea with stabilizers and preservatives. | NA | NA | NA |

SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

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|-------------------------|------------------------|---|---|
| Boiling Point | ND | Specific Gravity (H ₂ O = 1) | ND |
| Vapor Pressure (mm Hg) | 23.8@25 ^o C | Melting Point | NA |
| Vapor Density (AIR = 1) | <1 H ₂ O | Evaporation Rate (Butyl Acetate = 1) | 0.3 |
| Solubility in Water | Soluble | Appearance and Odor | Clear liquid with a yellow tint and slight odor |

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 | NA |
| Special Fire Fighting Procedures | NA |
| Unusual Fire and Explosion Hazards | NA |

SECTION V: REACTIVITY DATA

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|---------------------------------------|---------------------------------------|
| Stability | Stable under normal conditions of use |
| Conditions to Avoid | None |
| Incompatibility (Materials to Avoid) | None |
| Hazardous Decomposition or Byproducts | None |
| Hazardous Polymerization | Will Not Occur |
| Polymerization Conditions to Avoid | None |

SECTION VI: HEALTH HAZARD DATA

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| Route(s) of Entry: Ingestion, Skin, Eyes, Inhalation |
| Health Hazards (Acute): Ingestion-May lead to gastrointestinal disturbances and irritation, potentially toxic if swallowed in large quantities; Skin- May cause irritation; Eyes-May cause eye irritation; Inhalation-May cause pulmonary irritation. |
| Carcinogenicity: NA |
| Signs and Symptoms of Exposure: See health hazards above. |
| Medical Conditions Generally Aggravated by Exposure: ND |
| Emergency and First Aid Procedures: Ingestion-Give two glasses of water to dilute, contact a physician; Skin-Wash with soap and water; Eyes-flush with water; 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: Dilute with water and wash to drain. |
| 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: NA |
| Other Precautions: All materials should be handled under good housekeeping practices. |

SECTION VIII: CONTROL MEASURES

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|--|-----------------------------|
| Respiratory Protection | Not required |
| Ventilation | Not required |
| Protective Gloves | Recommended |
| Eye Protection | Recommended |
| Other Protective Clothing or Equipment | None |
| 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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