

# 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  
Date Prepared: 20 December 2011

### 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

Boiling Point	ND	Specific Gravity (H <sub>2</sub> O = 1)	ND
Vapor Pressure (mm Hg)	23.8@25 <sup>o</sup> C	Melting Point	NA
Vapor Density (AIR = 1)	<1 H <sub>2</sub> 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

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

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

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

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

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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