



PURIFY

SAFETY DATA SHEET

LIQUID AMMONIUM SULFATE

I. IDENTIFICATION

Product Name: Aquamine® Liquid Ammonium Sulfate	Distributor: Purify 1707 Townhurst Drive Houston, TX 77043
Synonym: LAS	Phone: 713-463-1929
CAS #: N/A	Website: www.purifywt.com
Recommendations / Restrictions on Use: Use only for proper and legal purposes.	Emergency Contact: 1-800-424-9300 (CHEMTREC)

II. HAZARDS IDENTIFICATION

Classifications: Not classified.	Hazard Statements: This mixture does not meet the criteria for classification.	Signal Word: None Symbol: None
Precautionary Statements:		
Prevention	Observe good industrial hygiene practices.	
Response	Wash hands after handling.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of waste and residues in accordance with local authority requirements.	

III. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:	The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.
OSHA 29 CFR 1910.1200:	The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

IV. FIRST AID MEASURES

Eyes:	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Remove any contact lenses.	Seek medical attention if irritation develops and persists.
Dermal / Skin:	Remove contaminated clothing and wash exposed area thoroughly with soap and water for at least 15 minutes.	Seek medical attention if irritation develops and persists.
Inhalation:	Move to fresh air immediately. If breathing is difficult, give oxygen.	Seek medical attention if symptoms develop or persist.
Ingestion:	If swallowed, DO NOT induce vomiting. Rinse mouth.	Seek medical attention if symptoms occur.
General:	Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves.	

V. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).	NFPA Hazard Rating: Health (Blue): 0 Fire (Red): 0 Reactivity (Yellow): 0 Special Instructions (White): None
Unsuitable Extinguishing Media: Do not use water jet as an extinguisher. This will spread the fire.	NFPA Hazard Classification: 0=Least 1=Slight 2=Moderate 3=High 4=Extreme
Specific Hazards Arising from the Chemical: During fire, gases hazardous to health may be formed.	
Special Protective Equipment and Firefighter Precautions: Self-contained breathing apparatus and full protective clothing must be worn in the case of fire.	
Firefighting Equipment and Instructions: Move containers from fire area if you can do so without risk.	
Specific Firefighting Methods: Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted.	

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:	Steps should be taken to contain spilled liquids and prevent discharges to streams or sewer systems.
Containment and Cleaning:	
Large Spills:	If without risk, stop the flow of material. Dike the spilled material where possible. Absorb in vermiculite, dry sand, or earth, and place into containers. Following product recovery, flush area with water.
Small Spills:	Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Disposal:	Never return spills to original containers for reuse. See section 13 for details regarding waste disposal.
Environment:	Avoid discharge into drains, water courses, or onto the ground.

VII. HANDLING AND STORAGE

Precautions for Safe Handling:	Observe good industrial hygiene practices.
Conditions for Safe Storage:	Store in original tightly closed container. Store away from incompatible materials. See section 10 of SDS for more details.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:	No exposure limits noted for the ingredients.		
Biological Limit Values:	No biological exposure limits noted for the ingredients.		
Engineering Controls:	HMIS Rating:		
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.	Health (Blue):		0
	Flammability (Red):		0
	Physical Hazard (Yellow):		0
	PPE (White):		See PPE
	Hazard Classification:		
	0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe		

INDIVIDUAL PROTECTION MEASURES:

The following are recommendations for Personnel Protective Equipment (PPE). The employer/user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product.

Eye:	Wear safety glasses with side shields, or wear goggles.
Skin:	Chemically-resistant gloves should be worn whenever this material is handled. Suitable gloves can be recommended by the glove supplier. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Wear suitable protective clothing.
Respiratory:	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal:	Wear appropriate thermal protective clothing, when necessary.
General Hygiene:	Practice good personal hygiene after using this material, especially before eating, drinking, smoking, or using the toilet. Routinely wash work clothing and protective equipment to remove contaminants.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	pH:	Not available
Appearance:	Colorless to slightly yellow	Molecular Weight:	Not available
Odor:	Slight ammonia	Odor Threshold:	Not available
Specific Gravity: (H ₂ O = 1)	1.22	Density:	10.20 lbs/gal
Boiling Point:	~ 212°F / 100°C	Vapor Pressure:	Not available
Lower Explosive Limit:	Not available	Freezing/Melting Point:	5°F / -15°C
Flash Point:	Not available	Upper Explosive Limit:	Not available
Solubility in Water:	Not available	Autoignition Temperature:	Not available
		Percent Volatile:	~ 60%

X. STABILITY AND REACTIVITY

Reactivity:	This product is stable and nonreactive under normal conditions of use, storage, and transport.
Chemical Stability:	This material is stable under normal or expected use.
Hazardous Reactions:	There is no dangerous reaction known under conditions of normal use.
Conditions to Avoid:	Avoid contact with incompatible materials.
Incompatible Materials:	Avoid contact with strong oxidizing agents.
Hazardous Decomposition Products:	No hazardous decomposition products are known.

XI. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, and Inhalation	Toxicological Effects:
Symptoms of Exposure:	Acute Toxicity: Not available.
Eye Contact: May cause temporary irritation.	Physical Irritation: Prolonged skin contact or direct contact with eyes may cause temporary irritation.
Ingestion: Expected to be a low ingestion hazard.	Physical Sensitization: This product is not expected to cause skin or respiratory sensitization.
Skin Contact: No adverse effects are expected.	Germ Cell Mutagenicity: No available data indicates product or any components present at >0.1% are mutagenic or genotoxic.
Inhalation: No adverse effects are expected.	Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.
Carcinogenicity:	
NPT: Not listed.	
IARC: Not listed.	
OSHA: Not listed.	

XII. ECOLOGICAL INFORMATION

Ecotoxicity:	This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
Other Adverse Effects:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

XIII. DISPOSAL CONSIDERATIONS

Disposal Instructions:	Collect and reclaim/dispose in sealed containers at licensed waste disposal site.
Local Disposal Regulations:	Dispose of in accordance with all applicable regulations.
Hazardous Waste Code:	Assign after discussion between user, producer, and the waste disposal company.
Waste from Residues:	Empty containers or liners may retain product residues; dispose of in safe manner.
Contaminated Packaging:	Follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

XIV. TRANSPORT INFORMATION

DOT: Not classified as dangerous goods. DOT information on packaging may be different from that listed.

XV. REGULATORY INFORMATION

U. S. FEDERAL REGULATIONS:

TSCA Section 12(B) Export Notification (40 CFR 707, Subpt. D):

Not regulated

CERCLA Hazardous Substances List (40 CFR 302.4):

Not listed

SARA 304 Emergency Release Notification:

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Not regulated

Superfund Amendments and Reauthorization Act of 1986 (SARA):

Hazard Categories:	Immediate Hazard:	No
	Delayed Hazard :	No
	Fire Hazard:	No
	Pressure Hazard:	No
	Reactivity Hazard:	No

SARA 302 Extremely Hazardous Substance: Not listed

SARA 311/312 Hazardous: No

SARA 313 (TRI Reporting): Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Not regulated

Safe Drinking Water Act (SDWA):

Not regulated

U. S. STATE REGULATIONS:

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100):

Not listed

US. Massachusetts RTK - Substance List:

Not regulated

US. New Jersey Worker and Community Right-to-Know Act:

Not listed.

US. Rhode Island RTK:

Not regulated

US. California Proposition 65:

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Inventory Status:

U. S. TSCA: Yes

Europe EINECS: Yes

Europe ELINCS No

Canadian DSL: Yes

Canadian NDSL: No

Japanese ENCS: Yes

Chinese IECSC: Yes

Korean ECL: Yes

Philippines PICCS: Yes

Australian AICS: Yes

New Zealand Inv: Yes

XVI. OTHER INFORMATION

Revision Notes:

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PURIFY

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