

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Gleam Guru - Ammonia Cleaning Solution  
**Synonyms:** azanium hydroxide  
**CAS Number:** 1336-21-6  
**Grade/Purity:** Technical  
**Product Type:** Bases  
**Product Use:** Industrial, Manufacturing or Laboratory use  
**Manufacturer/Supplier:** Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574  
**Information:** 512-365-6838 | www.alliancechemical.com  
**Emergency:** CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

### 2. HAZARDS IDENTIFICATION

**Signal Word:** Danger

**GHS Pictograms:**



**Hazard Statements:**

H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation

**Precautionary Statements:**

P260	Do not breathe mist, vapors or spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves, protective clothing, eye and face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	% MIN	% MAX	CAS #	EINECS# / ELINCS#	FORMULA	MOLECULAR WEIGHT
Ammonium Hydroxide	28	30	1336-21-6	215-647-6	NH <sub>4</sub> OH	35.05 g/mol
Water	72	72	7732-18-5	231-791-2	H <sub>2</sub> O	18.02 g/mol

### 4. FIRST-AID MEASURES

<b>Eyes</b>	Refer to the "General First Aid" section. Specific First Aid: For corrosives, in case of contact, immediately flush skin or eyes with running water for at least 30 minutes. Additional flushing may be required. (ERG, 2024)
<b>Skin</b>	Remove contaminated clothes. Rinse skin with plenty of water or shower for at least 15 minutes. Refer immediately for medical attention .
<b>Inhalation</b>	· Administer oxygen if breathing is difficult.

<b>Ingestion</b>	-- DO NOT perform mouth-to-mouth resuscitation; the victim may have ingested or inhaled the substance.
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## 5. FIRE-FIGHTING MEASURES

<b>Suitable Media</b>	Use water spray, alcohol-resistant foam, dry chemical, or CO2. Use measures appropriate to local circumstances.
<b>Unsuitable Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Protective Equipment</b>	Wear self-contained breathing apparatus and full protective clothing.
<b>Combustion Products</b>	May include carbon oxides and other toxic fumes. See Section 10.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
<b>Environmental</b>	Prevent leakage or spillage from entering drains, sewers, or waterways.
<b>Containment &amp; Cleanup</b>	Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations.

## 7. HANDLING AND STORAGE

<b>Safe Handling</b>	Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.
<b>Safe Storage</b>	Store in a cool, dry, well-ventilated area. Keep away from incompatible materials (see Section 10). Keep containers tightly closed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

**Occupational Exposure Limits:**

AGENCY	EXPOSURE LIMIT
OSHA PEL	50 ppm TWA
NIOSH REL	25 ppm TWA / 35 ppm STEL
IDLH	300 ppm

<b>Eyes</b>	Wear chemical safety goggles or face shield.
<b>Skin</b>	Wear chemical-resistant gloves and protective clothing.
<b>Inhalation</b>	Use a NIOSH-approved respirator (N95/P100 for particulate, organic vapor or acid gas cartridge as appropriate to the substance) when exposure limits may be exceeded or visible mist or dust is generated.

Exposure limits sourced from NIOSH Pocket Guide and OSHA 29 CFR 1910.1000. Hazard classification from ECHA Classification and Labelling Inventory (CLP Annex VI).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless liquid
<b>Odor</b>	Characteristic
<b>Median Particle Size</b>	Not Applicable
<b>Particle Size Distribution</b>	Not Applicable
<b>Particle Shape</b>	Not Applicable
<b>Surface Area</b>	Not Applicable
<b>Dustiness</b>	Not Applicable
<b>Hygroscopicity</b>	Not Applicable
<b>pH</b>	Not Available

<b>Melting Point</b>	Not characterized for the solution
<b>Boiling Point</b>	Not characterized for the solution
<b>Flash Point</b>	Not Available
<b>Vapor Pressure</b>	Not Available
<b>Specific Gravity</b>	0.99
<b>Solubility</b>	Soluble in water
<b>Molecular Formula</b>	NH <sub>4</sub> OH
<b>Molecular Weight</b>	35.05 g/mol

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Hazardous Reactions</b>	None under normal processing conditions.
<b>Conditions to Avoid</b>	Heat, sparks, open flame, and incompatible materials.
<b>Incompatible Materials</b>	Strong oxidizing agents, strong acids, strong bases.
<b>Decomposition Products</b>	May produce carbon oxides and other toxic fumes when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** See Section 2 for GHS hazard classification.

<b>IARC</b>	Not listed as carcinogen.
<b>NTP</b>	Not listed as carcinogen.
<b>OSHA</b>	Not listed as carcinogen.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Fish LC50: ~ 0.024 mg/L (48 h, <i>Lepomis macrochirus</i> — driven by un-ionized NH <sub>3</sub> (pH/temp dependent); range 0.024–0.093 mg/L)
<b>Persistence</b>	Not applicable (inorganic; NH <sub>3</sub> ⇌ NH <sub>4</sub> <sup>+</sup> equilibrium). Toxicity from un-ionized ammonia, rising with pH and temperature.
<b>Bioaccumulation</b>	Not Available
<b>Mobility in Soil</b>	Not Available

## 13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

## 14. TRANSPORT INFORMATION

<b>US DOT</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.
<b>IATA/ICAO</b>	Not regulated as dangerous goods.
<b>Marine Pollutant</b>	No
<b>Note</b>	Hazard communication note: Product may meet GHS hazard criteria for workplace handling, while not being regulated as dangerous goods for transport.

## 15. REGULATORY INFORMATION

<b>Regulatory listings not yet on file in this system; consult OSHA, EPA TSCA, EPCRA TRI, and California OEHHA directly.</b>	
<b>SARA 311/312</b>	See Section 2 for hazard classifications.

## 16. OTHER INFORMATION

**Revision Date:** 07/01/2026

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