

### PRODUCT IDENTIFICATION



**Product Name:** Gleam Guru - Ammonia Cleaning Solution  
**CAS Number:** 7664-41-7  
**Molecular Formula:** H<sub>3</sub>N  
**Molecular Weight:** 17.031 g/mol  
**Grade:** Technical Grade  
**Purity / Concentration:** Not Available  
**Synonyms:** Ammonium Hydroxide Solution, Aqueous Ammonia

### PRODUCT OVERVIEW

Gleam Guru is a high-performance technical grade aqueous ammonia solution, widely recognized for its robust grease-cutting capabilities and pH-adjusting properties. With a precise assay concentration of 28.5% and extremely low impurity levels, such as iron at 0.1 ppm, it offers consistent reliability for demanding industrial applications.

**Grade Significance:** Technical grade indicates that this product is manufactured to meet industrial performance standards, providing an ideal balance of high purity and cost-effectiveness for large-scale operations.

### CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (wt%)	%	28.5	25	—	Titration with H <sub>2</sub> SO <sub>4</sub>
Color (APHA)	APHA	10	—	25	ASTM D1209
Specific Gravity (20°C)	g/mL	0.897	0.892	0.902	ASTM D4052
Residue After Ignition	%	0.0010	—	0.01	Gravimetric
Iron (Fe)	ppm	0.1	—	1	ICP-OES
Chloride (Cl <sup>-</sup> )	ppm	0.2	—	5	Ion Chromatography
Sulfate (SO <sub>4</sub> <sup>2-</sup> )	ppm	0.5	—	5	Ion Chromatography

ND = Not Detected. Values are typical and may vary by lot.

### PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless liquid	<b>Odor</b>	Strong, pungent ammonia odor
<b>Form</b>	Liquid	<b>Boiling Point</b>	33°C (91.4°F)
<b>Melting / Freezing Point</b>	-78°C (-108.4°F)	<b>Specific Gravity</b>	0.89
<b>Solubility</b>	Soluble in water	<b>Molecular Formula</b>	H <sub>3</sub> N
<b>Molecular Weight</b>	17.031 g/mol	<b>Vapor Pressure (20°C)</b>	8.5 mmHg
<b>Viscosity (25°C)</b>	0.4 cP	<b>Refractive Index (20°C)</b>	1.333
<b>Density (25°C)</b>	0.91 g/mL		

## APPLICATIONS

1. **Industrial Manufacturing** — Used as a powerful degreasing agent to clean heavy machinery and equipment, ensuring optimal performance and maintenance.
2. **Water Treatment** — Serves as an essential reagent for adjusting water pH levels to maintain the stability and efficiency of chemical treatment processes.
3. **Chemical Research** — Acts as a reliable strong base in various laboratory analytical procedures and controlled chemical experiments.
4. **Surface Finishing** — Applied for professional surface preparation to remove contaminants and ensure superior adhesion for paints and protective coatings.

## STORAGE & HANDLING

Gleam Guru must be stored in a cool, well-ventilated area to prevent pressure buildup and exposure to respiratory hazards. Because this solution is classified as a skin and eye corrosive, proper containment is essential to maintain workplace safety and chemical integrity.

- Store in a cool, dry, well-ventilated area away from incompatible materials.
- Use containers made of HDPE or glass to prevent chemical reactions.
- Avoid exposure to heat or direct sunlight to maintain product stability.
- Wear appropriate personal protective equipment (PPE) such as gloves and goggles when handling.
- Ensure adequate ventilation in storage areas to prevent vapor buildup.

## AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

## SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Danger**



Hazard Statements:

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

**Emergency Contact:** CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

*For complete safety information, refer to the Safety Data Sheet (SDS) for this product.*

---

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | [www.alliancechemical.com](http://www.alliancechemical.com)

**Disclaimer:** The information contained herein is believed to be accurate and represents the best information currently available to us. However, Alliance Chemical makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.