

PRODUCT IDENTIFICATION



Product Name: Gleam Guru - Ammonia Cleaning Solution

CAS Number: 1336-21-6

Molecular Formula: H_5NO

Molecular Weight: 35.046 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 (Titration)	%	10	5	12	Titration
Residue On Evaporation	ppm	2	—	7	Evaporation
Arsenic As	ppm	0.0017	0	0.0034	ICP-MS
Copper Cu	ppm	0.069	0	0.1724	ICP-MS
Heavy Metals As Pb	ppm	0.0172	—	0.1724	ICP-MS (as Pb)
Iron	ppm	0.0207	—	0.069	ICP
Lead Pb	ppm	0.069	0	0.1724	ICP-MS
Manganese Mn	ppm	0.069	0	0.1724	ICP-MS
Sodium Na	ppm	0.6897	0	1.7241	ICP-MS
Chloride (Cl^-)	ppm	0.069	—	0.1724	Ion chromatography
Sulfate (SO_4^{2-})	ppm	0.2069	—	0.6897	Ion chromatography

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

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	Odor	Strong, pungent ammonia odor
Form	Liquid	Boiling Point	Not characterized for the 10% solution
Melting / Freezing Point	Not characterized for the 10% solution	Flash Point	132 °C (270 °F) - closed cup
Specific Gravity	0.99	Solubility	Soluble in water
Molecular Formula	H ₅ NO	Molecular Weight	35.046 g/mol
Vapor Pressure (20°C)	8.5 mmHg	Viscosity (25°C)	0.4 cP
Refractive Index (20°C)	1.333	Density (25°C)	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 [Danger Skin corrosion/irritation]
- H400: Very toxic to aquatic life [Warning Hazardous to the aquatic environment, acute hazard]

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.

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