

PRODUCT IDENTIFICATION



Product Name: Gleam Guru - Ammonia Cleaning Solution Technical Grade

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-quality technical grade ammonium hydroxide solution, formulated at a 10% concentration for reliable industrial performance. This clear, colorless liquid is characterized by exceptional purity levels, including trace heavy metals well below 0.1 ppm, making it a dependable choice for heavy-duty cleaning and pH adjustment.

Grade Significance: Technical Grade indicates that this product is optimized for industrial and manufacturing utility where efficiency and cost-effectiveness are prioritized over pharmaceutical or food-grade purity standards.

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** — Utilized for deep cleaning of machinery and industrial equipment due to its powerful grease-cutting properties.
- 2. Water Treatment** — Serves as an effective agent to adjust pH levels in water treatment processes, ensuring optimal chemical balance.
- 3. Laboratory Research** — Acts as a reliable reagent in various chemical analyses and experiments that require a strong base.
- 4. Surface Finishing** — Applied for professional surface preparation prior to painting or coating to ensure maximum material adhesion.

STORAGE & HANDLING

Gleam Guru must be stored in a cool, well-ventilated area to prevent the buildup of ammonia vapors and maintain solution stability. Because it is classified as causing severe skin burns and respiratory irritation, secure storage is essential to protect personnel and prevent accidental exposure.

- 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
- H400: Very toxic to aquatic life

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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