



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

(According to GB/T 16483, GB/T 17519, and GHS Standards)

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Ammonium Hydroxide Solution (28% NH₃ in Water)
- Product Number:NH4OH-20260216
- Brand:TECHPURE
- CAS-No.:1336-21-6
- Synonyms: Aqueous Ammonia; Ammonium Hydrate

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
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- Telephone : +86-021-50350029
- Fax : +86-021-50350029

1.3 Emergency telephone

Emergency Phone # : +86-021-50350029
(CHEMTREC)

1.4 Uses & Restrictions

- Identified Uses: Chemical synthesis, laboratory reagent, cleaning agent.
- Uses Advised Against: Food contact, medicinal purposes, unventilated enclosed space use.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Skin corrosion/irritation (Category 2)
- Eye damage/eye irritation (Category 2)
- Acute toxicity - Inhalation (Category 3)
- Aquatic toxicity (Category 1)

2.2 GHS Label Elements

- Hazard Pictogram: Corrosion; Environment; Skull and crossbones
- Signal Word: Warning
- Hazard Statements: H315 (Causes skin irritation); H319 (Causes serious eye irritation); H331 (Toxic if inhaled); H400 (Very toxic to aquatic life)
- Precautionary Statements: P260 (Do not breathe vapor); P280 (Wear protective gloves/eye/respiratory protection); P304+P340 (If inhaled: Remove to fresh air)

SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Mixture
- Active Component: Ammonia (NH₃, CAS 7664-41-7)
- Concentration: 28.0 ± 1.0%
- Diluent: Deionized Water (71.0-72.0%)



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- Impurities: $\leq 0.5\%$ (Trace metals)

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; give oxygen if needed; seek emergency medical attention.
- Skin Contact: Remove contaminated clothing; rinse skin with plenty of running water for 15 minutes.
- Eye Contact: Hold eyes open; rinse continuously with plenty of running water for 15 minutes; seek medical attention.
- Swallowed: Do not induce vomiting; rinse mouth with water; seek immediate medical attention.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Dry powder, CO₂, foam, water spray.
- Special Hazards: Non-flammable; volatile ammonia vapor is irritating; corrosive to metals.
- Advice for Firefighters: Wear self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental Release Measures

- Personal Precautions: Evacuate non-essential personnel; wear full PPE; eliminate ignition sources.
- Environmental Precautions: Prevent entry into drains/watercourses; neutralize with acid absorbents.
- Clean-Up Methods: Small spills: Absorb with inert acidic materials; large spills: Contain and transfer to sealed containers.

SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated areas with corrosion-resistant equipment.
- Storage: Cool, well-ventilated warehouse ($\leq 25^{\circ}\text{C}$); sealed, away from heat/acids.
- Incompatibilities: Acids, metals, oxidizing agents.

SECTION 8: Exposure Controls/Personal Protection

- PPE: Chemical safety goggles/face shield; nitrile rubber gloves; ammonia vapor respirator.
- Exposure Limits: TWA (8h): 25 ppm (OSHA); STEL (15min): 35 ppm (OSHA).

SECTION 9: Physical and Chemical Properties

- Physical State: Liquid; Color: Colorless; Odor: Pungent ammonia
- Melting Point: -57°C ; Boiling Point: 38°C ; Density (20°C): 0.902 g/cm^3
- Viscosity (20°C): $1.2\text{ mPa}\cdot\text{s}$; Vapor Pressure (25°C): 15 kPa

SECTION 10: Stability and Reactivity

- Stability: Stable under normal conditions; volatile at room temperature.
- Hazardous Reactions: Reacts violently with acids and metals.

SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD₅₀): 350 mg/kg ; Inhalation (Rat, LC₅₀): 4800 ppm (4h)
- Skin/Eye Irritation: Moderate skin irritation; serious eye irritation.

SECTION 12: Ecological Information



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- Aquatic Toxicity: Fish (Zebrafish, LC₅₀): 80 mg/L (96h); Daphnia (EC₅₀): 120 mg/L (48h)
- Biodegradability: Fully biodegradable after neutralization.

SECTION 13: Disposal Considerations

- Product Waste: Dispose as hazardous waste; neutralize with acid before disposal.
- Packaging Waste: Rinse with water; dispose as hazardous waste or recycle.

SECTION 14: Transport Information

- UN Number: 2672
- UN Proper Shipping Name: AMMONIUM HYDROXIDE SOLUTION
- Transport Hazard Class: 8 (Corrosive); Packaging Group: III
- Marine Pollutant: Yes

SECTION 15: Regulatory Information

- National Regulations: Hazardous Chemical Safety Management Regulation; Environmental Protection Law.
- International Regulations: GHS (Rev. 9); REACH (EU, listed); TSCA (US, listed); IMDG Code.

SECTION 16: Other Information

- Revision Date:16 FEB 2026
- Disclaimer: This MSDS is based on current data; supplier not liable for improper use.

纳维盈医化科技
NEWAY SINOPHC TECH