



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
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Safety Data Sheet (MSDS)

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

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Trimethylamine Solution (40% in Water)
- Product Number: TMA-20260317
- Brand: TECHPURE
- CAS-No.: 75-50-3
- Synonyms: Trimethylamine Aqueous Solution; TMA Solution

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
- RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI)PILOT FREE TRADE ZONE.
- 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 intermediate, catalyst, ion exchange resin monomer.
- Uses Advised Against: Food contact, medicinal purposes, unventilated enclosed space use.

SECTION 2: Hazards Identification

2.1 GHS Classification

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

2.2 GHS Label Elements

- Hazard Pictogram: Flame; Skull and crossbones; Corrosion; Environment
- Signal Word: Danger
- Hazard Statements: H225 (Highly flammable liquid and vapor); H331 (Toxic if inhaled); H314 (Causes severe skin burns and eye damage); H400 (Very toxic to aquatic life)
- Precautionary Statements: P210 (Keep away from heat/sparks); P260 (Do not breathe vapor); P280 (Wear protective gloves/eye/face/respiratory protection); P304+P340 (If inhaled: Remove to fresh air)

SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Mixture
- Active Component: Trimethylamine (CAS 75-50-3)
- Concentration: 40.0 ± 1.0%
- Diluent: Deionized Water (59.0-61.0%)
- Impurities: ≤ 0.5% (Dimethylamine, tetramethylammonium hydroxide)

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; give oxygen if needed; seek emergency medical attention.
- Skin Contact: Rinse with running water for 15-20 minutes; remove contaminated clothing.
- Eye Contact: Rinse with plenty of water for 15 minutes; seek emergency 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: Flammable vapor; toxic fumes (NO_x) when burned; 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 materials; large spills: Contain and transfer to sealed containers.

SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated areas with corrosion-resistant equipment; use anti-static tools.
- Storage: Cool, dry, well-ventilated warehouse (≤ 25°C); sealed, away from heat/sparks/oxidizers/acids.
- Incompatibilities: Strong acids, oxidizing agents, metals.

SECTION 8: Exposure Controls/Personal Protection

- PPE: Chemical safety goggles/face shield; nitrile rubber gloves; chemical-resistant clothing; organic vapor respirator (P100).
- Exposure Limits: TWA (8h): 10 ppm (OSHA); STEL (15min): 20 ppm (OSHA).

SECTION 9: Physical and Chemical Properties

- Physical State: Liquid; Color: Colorless to pale yellow; Odor: Fishy ammonia-like
- Melting Point: -117°C; Boiling Point: 42°C; Flash Point: -10°C
- Density (20°C): 0.812 g/cm³; Viscosity (20°C): 1.0 mPa·s



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- Water Solubility: Fully miscible; Vapor Pressure (25°C): 30 kPa
- Explosive Limits: 2.0-11.6% (v/v); Autoignition Temperature: 190°C

SECTION 10: Stability and Reactivity

- Stability: Stable under normal conditions.
- Hazardous Reactions: Reacts violently with strong acids/oxidizers; reacts with metals to release hydrogen gas.

SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD₅₀): 370 mg/kg; Inhalation (Rat, LC₅₀): 1900 ppm (4h)
- Skin/Eye Corrosion: Severe skin burns; permanent eye damage risk.

SECTION 12: Ecological Information

- Aquatic Toxicity: Fish (Zebrafish, LC₅₀): 60 mg/L (96h); Daphnia (EC₅₀): 90 mg/L (48h)

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: 1297
- UN Proper Shipping Name: TRIMETHYLAMINE AQUEOUS SOLUTION
- Transport Hazard Class: 3 (Flammable liquid) + 8 (Corrosive substances)
- Packaging Group: II
- 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: 17 MAR 2026
- Disclaimer: This MSDS is based on current data; supplier not liable for improper use.