

Material Safety Data Sheet (MSDS)
N,N,N',N'-Tetramethylethylenediamine (TMEDA)

Prepared by Tuoda Industry Limited

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1. Identification

Product Name:	N,N,N',N'-Tetramethylethylenediamine (TMEDA)
CAS No.:	110-18-9
EINECS/ELINCS No.:	203-744-6
Recommended Use:	Chemical intermediate, complexing agent, solvent in organic synthesis.
Uses Advised Against:	Food, drug, pesticide, or biocidal product use.
Supplier:	Tuoda Industry Limited
Emergency Telephone (24H):	+86 13589106478 (WhatsApp)

2. Hazard(s) Identification

Classification (GHS/OSHA 29 CFR 1910.1200):

- Flammable liquids (Category 2)
- Acute toxicity, oral (Category 4)
- Skin corrosion/irritation (Category 2)
- Serious eye damage/eye irritation (Category 2A)

Signal Word: Danger

Hazard Statements:

- Highly flammable liquid and vapor.
- Harmful if swallowed.
- Causes skin irritation.
- Causes serious eye irritation.

3. Composition/Information on Ingredients

N,N,N',N'-Tetramethylethylenediamine

CAS No.: 110-18-9

4. First-aid Measures

Inhalation: Remove person to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash with plenty of water. Seek medical attention if irritation develops.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.

5. Fire-fighting Measures

Suitable Extinguishing Media: Dry chemical, CO₂, alcohol-resistant foam. Water may be ineffective.

Specific Hazards: Flammable vapors may form explosive mixtures with air.

Protective Equipment: Full protective gear and self-contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions: Remove all sources of ignition. Use personal protective equipment.

Environmental Precautions: Prevent from entering drains, surface water and groundwater.

Methods for Cleanup: Absorb with inert material and dispose of according to regulations.

7. Handling and Storage

Handling: Handle in well-ventilated areas away from heat, sparks, and flames.

Storage: Keep container tightly closed in a cool, dry, and well-ventilated place away from incompatible materials.

8. Exposure Controls / Personal Protection

Engineering Controls: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment:

- Eyes: Safety goggles (EN166)
- Skin: Protective gloves and clothing
- Respiratory: Approved respirator if ventilation is inadequate

9. Physical and Chemical Properties

Appearance	Colorless to light yellow liquid
Odor	Amine-like odor
Density at 20°C	0.775 g/cm ³
Melting Point	-55°C
Boiling Point	121-122°C
Flash Point	14°C (closed cup)
Solubility	Miscible with water, organic solvents

10. Stability and Reactivity

Reactivity: Stable under recommended handling and storage conditions.

Stability: Stable under normal temperatures and pressures.

Incompatible Materials: Strong oxidizing agents, acids.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides.

11. Toxicological Information

Acute Toxicity: Harmful if swallowed.

Inhalation: May cause respiratory irritation.

Skin Contact: Causes irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Harmful if swallowed.

Carcinogenicity: Not classified.

STOT: May cause respiratory irritation.

12. Ecological Information

Ecotoxicity: Harmful to aquatic life with long-lasting effects.

Persistence and Degradability: Readily biodegradable.

Bioaccumulation: Not expected.

13. Disposal Considerations

Dispose of in accordance with local, regional, and national regulations.

14. Transport Information

UN Number	UN2372
Proper Shipping Name	N,N,N',N'-Tetramethylethylenediamine
Hazard Class	3 (Flammable Liquid)
Packing Group	II

15. Regulatory Information

TSCA (US): Listed
EINECS (EU): Listed
REACH: Use restricted.

16. Other Information

Prepared By: Safety & Compliance Department, Tuoda Industry Limited
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