

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

Prepared by Tuoda Industry Limited

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## 1. Identification

<b>Product Name:</b>	N,N,N',N'-Tetramethylethylenediamine (TMEDA)
<b>CAS No.:</b>	110-18-9
<b>EINECS/ELINCS No.:</b>	203-744-6
<b>Recommended Use:</b>	Chemical intermediate, complexing agent, solvent in organic synthesis.
<b>Uses Advised Against:</b>	Food, drug, pesticide, or biocidal product use.
<b>Supplier:</b>	Tuoda Industry Limited
<b>Emergency Telephone (24H):</b>	+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, CO<sub>2</sub>, 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

<b>Appearance</b>	Colorless to light yellow liquid
<b>Odor</b>	Amine-like odor
<b>Density at 20°C</b>	0.775 g/cm <sup>3</sup>
<b>Melting Point</b>	-55°C
<b>Boiling Point</b>	121-122°C
<b>Flash Point</b>	14°C (closed cup)
<b>Solubility</b>	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

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

### 15. Regulatory Information

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

### 16. Other Information

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