

MsdS for TEA


Chemical Product and Company Identification

- **Product Name:** Triethanolamine (TEA)
 - **Synonyms:** TEA, 2,2',2''-Nitrilotriethanol
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2. Composition / Information on Ingredients

- **Chemical Name:** Triethanolamine
 - **CAS Number:** 102-71-6
 - **Concentration:** 99% (typical for pure TEA)
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3. Hazards Identification

- **Classification (GHS):**
 - Eye Irritation (Category 2A)
 - Skin Irritation (Category 2)
 - **Label Elements:**
 -  **Warning**
 - Causes eye and skin irritation.
 - **Routes of Exposure:** Inhalation, ingestion, skin, and eyes.
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4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
 - **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse thoroughly with water for at least 15 minutes. Get medical attention.
 - **Ingestion:** Do not induce vomiting. Rinse mouth and get medical help.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, foam, CO₂
 - **Hazardous Combustion Products:** CO, CO₂, nitrogen oxides
 - **Protective Equipment:** Self-contained breathing apparatus and full protective gear
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6. Accidental Release Measures

- **Personal Precautions:** Use PPE, avoid breathing vapors
 - **Spill Response:** Contain and collect with inert material (e.g., sand). Ventilate area.
 - **Environmental Precautions:** Avoid release into drains and water systems
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7. Handling and Storage

- **Handling:** Use in well-ventilated area. Avoid contact with eyes and skin.
 - **Storage:** Store in cool, dry, well-ventilated place. Keep container tightly closed.
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8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:**
 - ACGIH TLV: 5 mg/m³ (TWA)
 - **Engineering Controls:** Local exhaust ventilation
 - **PPE:**
 - **Eyes:** Safety goggles
 - **Skin:** Chemical-resistant gloves
 - **Respiratory:** Use appropriate respirator if ventilation is inadequate
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9. Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow viscous liquid
 - **Odor:** Mild ammonia-like
 - **Boiling Point:** ~335°C
 - **Melting Point:** 21°C
 - **Solubility:** Soluble in water
 - **pH:** ~10.5 (1% solution)
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10. Stability and Reactivity

- **Stability:** Stable under normal conditions
 - **Incompatible Materials:** Strong oxidizers, acids
 - **Hazardous Decomposition Products:** CO, CO₂, nitrogen oxides
 - **Reactivity:** Not reactive under normal conditions
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11. Toxicological Information

- **Acute Toxicity:**
 - LD50 Oral (rat): 6400 mg/kg
 - **Irritation:** Skin and eye irritant
 - **Carcinogenicity:** Not classified as a human carcinogen
 - **Repeated Exposure:** May cause organ damage with prolonged exposure
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12. Ecological Information

- **Ecotoxicity:** Low to moderate toxicity to aquatic life
 - **Persistence and Degradability:** Biodegradable
 - **Bioaccumulation:** Low potential
 - **Mobility in Soil:** Mobile in water
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13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local, regional, and national regulations.
 - **Contaminated Packaging:** Dispose of as chemical waste or recycle if possible.
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