

Material Safety Data Sheet (MSDS)

Triethyl Citrate

Revision Date: 26-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Triethyl Citrate
- **Chemical Formula:** C₁₂H₂₀O₇
- **CAS No:** 77-93-0
- **Synonyms:** Citric acid triethyl ester; Ethyl citrate
- **Recommended Use:** Used as a plasticizer, solvent, in cosmetics, flavors, and pharmaceutical applications.

Section 2: Hazards Identification

- **Classification (GHS):** Not classified as hazardous according to GHS.
- **Signal Word:** None
- **Hazard Statements:** Generally regarded as safe under normal handling conditions.
- **Precautionary Statements:**
 - Handle in accordance with good industrial hygiene and safety practices
 - Avoid prolonged contact with skin and eyes
 - Wash thoroughly after handling

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Section 3: Composition / Information on Ingredients

- **Concentration:** 99%

Section 4: First Aid Measures

- **Inhalation:** Move person to fresh air. If breathing discomfort occurs, seek medical advice.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Get medical attention if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical advice if irritation develops.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice if necessary.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide.
- **Specific Hazards:** May produce carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid contact with skin/eyes. Ensure adequate ventilation. Wear protective equipment.
- **Environmental Precautions:** Prevent release into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand/earth). Collect into suitable containers for disposal. Wash spill area with detergent and water.

Section 7: Handling and Storage

- **Handling:** Handle with good industrial hygiene practices. Avoid prolonged exposure.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat and sunlight.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protective Equipment:** Safety goggles, chemical-resistant gloves, protective clothing.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow oily liquid
- **Odor:** Faint, odorless to slightly fruity

- **Boiling Point:** 127 °C
- **Flash Point:** 155 °C
- **Solubility:** Slightly soluble in water; soluble in alcohol and organic solvents
- **Molecular Weight:** 276.29 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents.
- **Hazardous Decomposition Products:** Carbon oxides.
- **Conditions to Avoid:** Excessive heat, flames, sparks.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** May cause mild irritation to eyes and skin. Oral LD50 (rat): >5,000 mg/kg.
- **Chronic Effects:** No known significant effects under normal use conditions.

Section 12: Ecological Information

- **Ecotoxicity:** Low toxicity to aquatic life.
- **Persistence and Degradability:** Readily biodegradable.
- **Bioaccumulative Potential:** Low.
- **Mobility in Soil:** Moderate due to partial solubility in water.

Section 13: Disposal Considerations

- Dispose of product/container in accordance with local/regional/national regulations. Do not release into the environment.

Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Triethyl Citrate
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Listed on major chemical inventories (e.g., TSCA, EINECS).
- Not classified as hazardous under GHS.
- Complies with Indian chemical safety regulations.

Section 16: Other Information

Disclaimer: The information above is believed to be accurate but does not purport to be all-inclusive and shall be used only as a guide. Triveni Chemicals shall not be held liable for any damage resulting from handling or from contact with the product.