

CHEMICAL WITHOUT BORDERS-POWERED BY INDIA

CIN No.: U24100GJ2010PTC060594 GST No.: 24AADCT5202F1ZU

MSME No: UDYAM-GJ-25-0009026

ISO 9001:2015 | QMS/NAB-C21601/1645

# Material Safety Data Sheet (MSDS)

## **Acetyl Tributyl Citrate**

Revision Date: 25-August-2025

Version: 1.0

#### Section 1: Product Identification

• **Product Name:** Acetyl Tributyl Citrate (ATBC)

• Chemical Formula: C20H34O8

• CAS No: 77-90-7

• Synonyms: ATBC, Citric acid tributyl ester, Acetyl tri-n-butyl citrate

• **Recommended Use**: Plasticizer in polymers, coatings, adhesives, inks, food packaging, and pharmaceutical applications.

#### Section 2: Hazards Identification

- Classification (GHS): Not classified as hazardous under normal conditions of use.
- Signal Word: None
- Hazard Statements:



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- May cause mild skin and eye irritation on prolonged contact
- Precautionary Statements:
  - Avoid contact with skin and eyes
  - Use with adequate ventilation
  - Wash hands thoroughly after handling

# Section 3: Composition / Information on Ingredients

• Concentration: >99%

#### Section 4: First Aid Measures

- Inhalation: Move to fresh air. If symptoms occur, seek medical attention.
- Skin Contact: Wash with plenty of soap and water. Seek medical attention if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- Ingestion: Rinse mouth. Do not induce vomiting. Seek medical advice if symptoms occur.

# Section 5: Fire-Fighting Measures

• Suitable Extinguishing Media: Foam, dry chemical, carbon dioxide (CO2), water spray.

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- Specific Hazards: Emits carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

#### Section 6: Accidental Release Measures

- Personal Precautions: Use personal protective equipment. Avoid contact with eyes and skin.
- Environmental Precautions: Prevent large spills from entering drains and waterways.
- Cleanup Methods: Absorb with inert material (sand, earth). Collect in suitable container for disposal.

# Section 7: Handling and Storage

- Handling: Avoid inhalation of vapors and contact with skin/eyes. Use in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place. Protect from heat and direct sunlight.

# Section 8: Exposure Controls / Personal Protection

- Exposure Limits: Not specifically established for ATBC.
- Engineering Controls: Ensure adequate ventilation.

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• **Personal Protective Equipment:** Gloves, protective goggles, lab coat, respirator if exposure limits are exceeded.

## Section 9: Physical and Chemical Properties

• Appearance: Colorless to pale yellow oily liquid

• Odor: Faint characteristic odor

Boiling Point: 327 °C

• Flash Point: 210 °C (closed cup)

• Solubility: Insoluble in water; soluble in ethanol, acetone, and organic solvents

• Molecular Weight: 402.48 g/mol

# Section 10: Stability and Reactivity

- Stability: Stable under normal conditions.
- Incompatible Materials: Strong oxidizing agents, strong acids and bases.
- Hazardous Decomposition Products: Carbon oxides under fire conditions.

# Section 11: Toxicological Information

• Routes of Exposure: Inhalation, ingestion, skin and eye contact.

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- Acute Effects: May cause mild skin and eye irritation.
- Chronic Effects: No known significant long-term health hazards under normal handling.

## Section 12: Ecological Information

- **Ecotoxicity:** Not classified as environmentally hazardous, but large releases may affect aquatic organisms.
- Persistence and Degradability: Expected to be readily biodegradable.
- Bioaccumulative Potential: Low potential for bioaccumulation.

# **Section 13: Disposal Considerations**

• Dispose of contents/container in accordance with local/regional/national regulations. Avoid release into the environment.

# Section 14: Transport Information

• UN Number: Not regulated

Proper Shipping Name: Acetyl Tributyl Citrate (ATBC)

Hazard Class: Not classified as dangerous goods

Packing Group: Not applicable

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## Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (TSCA, EINECS, etc.).
- Not classified as a hazardous substance under GHS.

#### Section 16: Other Information

• **Disclaimer:** The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. **Triveni chemicals** disclaims any liability for damage resulting from handling or contact.

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