

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)

Triacetin

Revision Date: 22-September-2025

Version: 1.0

Section 1: Product Identification

• Product Name: Triacetin

• Chemical Formula: C9H14O6

• CAS No: 102-76-1

• Synonyms: Glycerol triacetate, 1,2,3-Triacetoxypropane

Recommended Use: Solvent, food additive, plasticizer, pharmaceutical excipient

Section 2: Hazards Identification

- Classification (GHS): Not classified as hazardous under normal use.
- Signal Word: None required
- Hazard Statements:
 - May cause mild skin and eye irritation

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- Inhalation of mist may cause respiratory irritation
- Precautionary Statements:
 - Avoid prolonged contact with skin and eyes
 - Use protective gloves and safety glasses
 - Wash hands thoroughly after handling

Section 3: Composition / Information on Ingredients

• Concentration: 98% Triacetin

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. Remove contaminated clothing. Seek medical advice 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 feeling unwell.

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Section 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide (CO2).
- 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 inhalation and skin/eye contact. Ensure adequate ventilation.
- Environmental Precautions: Prevent entry into drains and waterways.
- Cleanup Methods: Absorb with inert material (sand, earth). Collect in suitable container for proper disposal.

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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 light.

Section 8: Exposure Controls / Personal Protection

- Exposure Limits: Not specifically established for Triacetin.
- Engineering Controls: Ensure adequate ventilation and local exhaust systems.
- **Personal Protective Equipment:** Gloves, protective goggles, lab coat, respirator if exposure limits are exceeded.

Section 9: Physical and Chemical Properties

• Appearance: Colorless, oily liquid

• Odor: Practically odorless, faintly fruity

• Boiling Point: 258 °C

Melting Point: -78 °C

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• Flash Point: 140 °C (closed cup)

• Solubility: Slightly soluble in water; miscible with alcohol and organic solvents

• Molecular Weight: 218.21 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.
- Acute Effects: May cause mild skin, eye, and respiratory irritation.
- Chronic Effects: No known chronic effects under normal use.
- LD50 Oral Rat: 2000 mg/kg (low toxicity)

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Section 12: Ecological Information

- **Ecotoxicity:** Not classified as environmentally hazardous, but large releases may be harmful to aquatic organisms.
- Persistence and Degradability: Expected to be biodegradable under normal conditions.
- Bioaccumulative Potential: Low potential for bioaccumulation.
- Mobility in Soil: Low mobility.

Section 13: Disposal Considerations

• Dispose of contents/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: Triacetin

• 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 hazardous substance as per 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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