

Trioctyl Trimellitate - MSDS

1. Product Name and Identification

Product Name: [Trioctyl Trimellitate](#)

Chemical Formula: C₃₃H₅₄O₆

Synonyms: TOTM, Tris(2-ethylhexyl) trimellitate

CAS Number: 3319-31-1

Manufacturer/Supplier: [Insert Manufacturer Name]

Emergency Contact Information: [Insert Emergency Contact Details]

2. Composition/Ingredients

Substance: Trioctyl Trimellitate

Chemical Name: Trioctyl Trimellitate

CAS Number: 3319-31-1

Percent by Weight: ≥ 99%

3. Hazards Identification

GHS Classification:

- Not classified as hazardous according to GHS criteria.

Signal Word: Not applicable

Hazard Statements:

- The product does not present any significant hazards under normal handling and use conditions.

Precautionary Statements:

- P264: Wash hands and skin thoroughly after handling.
- P280: Wear protective gloves and eye/face protection.

Potential Health Effects:

- **Eye Contact:** May cause minor, transient irritation with prolonged exposure.
- **Skin Contact:** Prolonged contact may cause mild irritation in sensitive individuals.
- **Inhalation:** Vapors or mists may cause temporary respiratory irritation in poorly ventilated areas.
- **Ingestion:** Considered non-toxic, but ingestion of large amounts may cause gastrointestinal discomfort.

4. First Aid Measures

General Advice: Always seek medical attention if symptoms persist.

- **Eye Contact:** Rinse eyes thoroughly with water for several minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
- **Skin Contact:** Wash affected skin with soap and water. Remove contaminated clothing. If irritation develops, consult a physician.
- **Inhalation:** Move to fresh air. If respiratory discomfort continues, seek professional medical advice.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed to do so by a medical professional. Contact a doctor if large quantities have been ingested.

5. Handling and Storage

Handling:

- Avoid prolonged or repeated contact with skin and eyes.
- Use in well-ventilated areas to minimize inhalation of vapors.
- Avoid creating splashes or mist of the product during handling.

Storage:

- Store in a cool, dry, and well-ventilated area.
- Keep containers tightly closed when not in use.
- Protect from strong oxidizing agents, excessive heat, and direct sunlight.

6. Exposure Controls/Personal Protection

Exposure Limits: No specific occupational exposure limits established.

Engineering Controls:

- Ensure proper ventilation, especially in confined areas or during large-scale handling. Use local exhaust if necessary.

Personal Protective Equipment (PPE):

- **Eye Protection:** Safety goggles or glasses with side shields.
- **Skin Protection:** Chemical-resistant gloves such as nitrile rubber.
- **Respiratory Protection:** Use a respirator if ventilation is inadequate or if large quantities of product are being used.
- **Clothing:** Long-sleeved clothing or lab coat to minimize skin exposure.

7. Physical and Chemical Properties

- **Appearance:** Clear, colorless to pale yellow liquid
- **Odor:** Odorless or very faint characteristic smell
- **Boiling Point:** > 300°C (> 572°F)
- **Melting Point:** Not applicable (liquid at standard conditions)
- **Flash Point:** > 230°C (> 446°F) (closed cup)
- **Density:** 0.99–1.0 g/cm³ at 25°C
- **Vapor Pressure:** Negligible at ambient temperature
- **Solubility:** Insoluble in water; soluble in common organic solvents like ethanol and toluene
- **pH:** Not applicable

8. Stability and Reactivity

Chemical Stability: Stable under normal handling and storage conditions.

Conditions to Avoid:

- Excessive heat, open flame, and direct sunlight.
- Avoid generation of mist or aerosolized product.

Materials to Avoid:

- Strong oxidizing agents and strong acids.

Hazardous Decomposition Products:

- Thermal decomposition may release carbon oxides and other harmful organic vapors.

9. Toxicological Information

Acute Toxicity:

- **Oral LD50 (Rat):** > 5,000 mg/kg (non-toxic at typical exposure levels)
- **Dermal LD50 (Rabbit):** > 5,000 mg/kg

Chronic Exposure:

- Not classified as a carcinogen by IARC, NTP, or OSHA.

Irritation Properties:

- May cause mild temporary irritation to eyes or skin with prolonged and intensive exposure.

Symptoms of Exposure:

- High exposure may cause mild irritation of the skin, eyes, or respiratory system, but no serious health effects are known.

10. Disposal Considerations**Waste Disposal Methods:**

Dispose of material in accordance with applicable local, regional, and national regulations. Prevent entry into drains, waterways, or soil. Contact a certified waste disposal contractor for large quantities.

Container Handling:

Ensure containers are completely empty before disposal. Do not reuse or recycle containers unless authorized. Treat all containers as hazardous waste if any residue is present.