

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)

Triton X-100

Revision Date: 16-October-2025

Version: 1.0

Section 1: Product Identification

• Product Name: Triton X-100

• Chemical Formula: C14H22O(C2H4O)n (n≈9-10)

• CAS No: 9002-93-1

• **Synonyms:** Octoxynol, T-Octylphenoxypolyethoxyethanol, and Polyethylene Glycol P-(1,1,3,3-tetramethylbutyl)-phenyl ether

• Recommended Use: Nonionic surfactant, emulsifier, detergent, laboratory reagent.

Section 2: Hazards Identification

• Classification (GHS): Eye Irrit. 2; Skin Irrit. 2; Aquatic Chronic 2.

• Signal Word: Warning

• Hazard Statements:



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- 🔾 135, Pancharatna, Char Rasta, G.I.D.C., Vapi-396195, Gujarat, India





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- Harmful if swallowed
- Causes skin irritation and serious eye irritation
- Combustible liquid
- Keep away from heat/sparks/open flames. No smoking
- Wear protective gloves/eye protection
- IF ON SKIN or IN EYES: Rinse cautiously with water; seek medical advice if irritation persists

Section 3: Composition / Information on Ingredients

• Concentration: 98%

Section 4: First Aid Measures

- Inhalation: Remove to fresh air. If symptoms develop, 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. Remove contact lenses if present. Continue rinsing. Seek medical attention if irritation persists.
- Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical advice immediately.

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Section 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide; water spray.
- **Specific Hazards:** Vapors may form explosive mixtures with air. Thermal decomposition may produce irritating or toxic fumes.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Avoid breathing vapors. Ensure adequate ventilation. Eliminate ignition sources.
- Environmental Precautions: Prevent entry into drains and waterways.
- Cleanup Methods: Absorb with inert material. Collect in suitable container for disposal.

Section 7: Handling and Storage

- **Handling:** Use only outdoors or in a well-ventilated area. Avoid breathing vapour. Wear appropriate PPE.
- **Storage:** Keep container tightly closed in a cool, well-ventilated place. Store locked up. Keep away from heat and open flames.

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Section 8: Exposure Controls / Personal Protection

- Exposure Limits: Not established for this substance.
- Engineering Controls: Provide adequate ventilation and local exhaust if needed.
- **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing. Respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

• Appearance: Clear, viscous liquid. Colorless to light yellow.

• Odor: Mild, faint, or weak.

• Boiling Point: 200 °C

• Flash Point: 251 °C

• Molecular Weight: 625 G/Mol

Section 10: Stability and Reactivity

- Stability: Stable under normal conditions.
- Incompatible Materials: Strong oxidizing agents.
- Hazardous Decomposition Products: Carbon oxides under fire conditions.

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Section 11: Toxicological Information

- Routes of Exposure: Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Toxic if swallowed; harmful if inhaled; causes skin and serious eye irritation; may cause allergic skin reaction.
- Chronic Effects: Prolonged or repeated exposure may cause dermatitis.

Section 12: Ecological Information

- Ecotoxicity: Toxic to aquatic life.
- Persistence and Degradability: Not determined.
- Bioaccumulative Potential: Not determined.

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: Triton X-100

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• Hazard Class: Not Applicable

• Packing Group: Not Applicable

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories.
- 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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