

Material Safety Data Sheet (MSDS)

Longifolene

Revision Date: 25-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Longifolene
- **Chemical Formula:** C₁₅H₂₄
- **CAS No:** 475-20-7
- **Synonyms:** 1,5,5,8-Tetramethyl-1,4,4a,6,7,8-hexahydronaphthalene; Tricyclic sesquiterpene
- **Recommended Use:** Used in fragrance formulations, intermediates for chemicals, and research applications.

Section 2: Hazards Identification

- **Classification (GHS):** Flammable Liquid (Category 4); Skin Irritant (Category 2); Aquatic Chronic Hazard (Category 2)
- **Signal Word:** Warning
- **Hazard Statements:**
 - Combustible liquid
 - Causes skin irritation
 - Toxic to aquatic life with long lasting effects
- **Precautionary Statements:**

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GROUP OF Triveni CHEMICALS

- Keep away from heat, sparks, and open flames
- Wear protective gloves, protective clothing, and eye protection
- Wash thoroughly after handling
- Avoid release to the environment

Section 3: Composition / Information on Ingredients

- **Concentration:** $\geq 95\%$

Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing. Seek medical advice if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek immediate medical attention.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide.
- **Specific Hazards:** Vapors may form explosive mixtures with air. Thermal decomposition produces carbon oxides.

- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective gear.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid inhalation of vapors and contact with skin/eyes. Use protective equipment. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Absorb with inert material. Collect into containers for disposal. Wash spill area with water and detergent.

Section 7: Handling and Storage

- **Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapors. Use with adequate ventilation.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat and ignition sources.

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; respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid
- **Odor:** Woody, resinous odor
- **Boiling Point:** 254 °C
- **Flash Point:** 95 °C (closed cup)
- **Solubility:** Insoluble in water; soluble in organic solvents
- **Molecular Weight:** 204.35 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended handling and storage conditions.
- **Incompatible Materials:** Strong oxidizers.
- **Hazardous Decomposition Products:** Carbon oxides.
- **Conditions to Avoid:** Heat, flames, sparks, static discharge.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes skin irritation and may cause eye irritation. Oral LD50 (rat): >5,000 mg/kg.
- **Chronic Effects:** Prolonged exposure may cause dermatitis or sensitization in susceptible individuals.

Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic organisms with long lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Moderate potential due to hydrophobic nature.
- **Mobility in Soil:** Low mobility.

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:** Longifolene
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Listed on major chemical inventories (TSCA, EINECS, etc.).
- Classified as hazardous under GHS for skin irritation and aquatic toxicity.
- Complies with Indian chemical safety regulations.

Section 16: Other Information

Disclaimer: The information provided is believed to be correct but does not claim to be exhaustive. Users must verify suitability under actual conditions of use. Triveni Chemicals disclaims liability for damage resulting from handling or contact.