

## Material Safety Data Sheet (MSDS)

### Larch Turpentine Oil

**Revision Date:** 26-September-2025

**Version:** 1.0

### Section 1: Product Identification

- **Product Name:** Larch Turpentine Oil
- **Chemical Nature:** Mixture of terpenes, primarily alpha- and beta-pinene
- **CAS No:** 8002-09-3
- **Synonyms:** Venice Turpentine; Turpentine Oil (Larch)
- **Recommended Use:** Used in varnishes, paints, adhesives, and as a solvent in various industrial applications.

### Section 2: Hazards Identification

- **Classification (GHS):** Flammable Liquid; Skin Irritant; Skin Sensitizer; Aquatic Chronic Hazard
- **Signal Word:** Warning
- **Hazard Statements:**
  - Flammable liquid and vapor
  - Causes skin irritation
  - May cause an allergic skin reaction
  - Toxic to aquatic life with long lasting effects
- **Precautionary Statements:**
  - Keep away from heat, sparks, open flames, and hot surfaces
  - Wear protective gloves, protective clothing, and eye protection

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- Avoid release to the environment
- Wash thoroughly after handling
- IF ON SKIN: Wash with plenty of water; if skin irritation occurs, seek medical advice

## Section 3: Composition / Information on Ingredients

- **Composition:** Complex mixture of terpenes, mainly alpha-pinene, beta-pinene, and resin acids
- **Concentration:** 100%

## Section 4: First Aid Measures

- **Inhalation:** Remove person to fresh air. If breathing difficulties occur, seek medical attention.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing. Seek medical advice if irritation or allergic reaction develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical advice if irritation persists.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention immediately.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Alcohol-resistant foam, dry chemical, carbon dioxide, water spray.
- **Specific Hazards:** Vapors may form explosive mixtures with air. Combustion releases carbon oxides and irritating fumes.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

## Section 6: Accidental Release Measures

- **Personal Precautions:** Eliminate ignition sources. Avoid inhalation of vapors and contact with skin/eyes. Wear protective equipment.
- **Environmental Precautions:** Prevent release into drains and waterways.
- **Cleanup Methods:** Contain and absorb with inert material (sand/earth). Collect into suitable containers for disposal. Wash spill area with detergent and water.

## Section 7: Handling and Storage

- **Handling:** Use only in well-ventilated areas. Avoid inhalation of vapors and contact with skin/eyes. Ground/bond containers and equipment.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat, sparks, and open flame.

## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Provide adequate ventilation, especially in confined areas.
- **Personal Protective Equipment:** Safety goggles, chemical-resistant gloves, protective clothing. Respiratory protection if ventilation is inadequate.

## Section 9: Physical and Chemical Properties

- **Appearance:** Viscous yellow to brown liquid
- **Odor:** Characteristic pine-like odor
- **Boiling Point:** 155–170 °C (approx., varies by composition)
- **Flash Point:** 38 °C (closed cup)
- **Solubility:** Insoluble in water; soluble in alcohol, ether, and organic solvents

## Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions. May oxidize slowly when exposed to air.
- **Incompatible Materials:** Strong oxidizing agents, acids, alkalis.
- **Hazardous Decomposition Products:** Carbon oxides and irritating fumes.
- **Conditions to Avoid:** Heat, sparks, open flames, and prolonged exposure to air/light.

## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes skin irritation and sensitization; inhalation of vapors may cause dizziness, headache, or respiratory irritation.
- **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis or sensitization.
- **Toxicity Data:** Oral LD50 (rat): 5,000 mg/kg.

## Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic life with long lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Moderate due to hydrophobic constituents.
- **Mobility in Soil:** Low mobility due to low water solubility.

## Section 13: Disposal Considerations

- Dispose of product/container in accordance with local/regional/national regulations. Do not release to the environment. Incineration under controlled conditions preferred.

## Section 14: Transport Information

- **UN Number:** UN1299
- **Proper Shipping Name:** Turpentine
- **Hazard Class:** 3 (Flammable liquid)
- **Packing Group:** III

## Section 15: Regulatory Information

- Listed on major chemical inventories (e.g., TSCA, EINECS).
- Classified as hazardous under GHS for flammability, skin irritation, sensitization, and aquatic hazard.
- Complies with Indian chemical safety regulations.

## Section 16: Other Information

**Disclaimer:** The information above is believed to be accurate but does not purport to be all-inclusive and shall be used only as a guide. Triveni Chemicals shall not be held liable for any damage resulting from handling or from contact with the product.