

Material Safety Data Sheet (MSDS)

Angelica Lactone Alpha

Revision Date: 13-October-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Angelica Lactone Alpha
- **Chemical Formula:** C₅H₆O₂
- **CAS No:** 591-12-8
- **Synonyms:** α-Angelica lactone; 4-Hydroxy-3-pentenoic acid lactone; 5-Methyl-2(3H)-furanone
- **Recommended Use:** Used in fragrances, flavor formulations, and as a chemical intermediate in organic synthesis.

Section 2: Hazards Identification

- **Classification (GHS):** Flammable liquid, Category 3; Skin irritation, Category 2; Eye irritation, Category 2A; Acute toxicity (oral), Category 4.
- **Signal Word:** Warning

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• **Hazard Statements:** Flammable liquid and vapor. Harmful if swallowed. Causes skin and eye irritation.

- 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 breathing is difficult, seek medical attention.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical advice.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Get medical attention immediately.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical, carbon dioxide. Avoid direct water stream.
- **Specific Hazards:** Combustible liquid; vapors may form explosive mixtures with air.
- **Protective Equipment:** Firefighters should wear full protective gear and self-contained breathing apparatus.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid contact with skin, eyes, and clothing. Remove all ignition sources. Ensure good ventilation.
- **Environmental Precautions:** Prevent leakage or spillage into drains and waterways.
- **Cleanup Methods:** Absorb with inert material and dispose of in accordance with local regulations.

Section 7: Handling and Storage

- **Handling:** Avoid contact with skin and eyes. Use in a well-ventilated area away from heat and flame.
- **Storage:** Keep container tightly closed in a cool, dry, well-ventilated area. Store away from oxidizing materials.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** No specific exposure limits established.
- **Engineering Controls:** Use local exhaust ventilation to minimize vapor exposure.
- **Personal Protective Equipment:** Wear protective gloves, chemical goggles, and protective clothing. Use a respirator if necessary.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to pale yellow liquid.
- **Odor:** Sweet, coumarin-like odor.
- **Boiling Point:** 55 - 56 °C
- **Flash Point:** 68 °C (closed cup)
- **Solubility:** Slightly soluble in water; soluble in ethanol and ether.
- **Molecular Weight:** 98.10 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal storage conditions.
- **Incompatible Materials:** Strong oxidizing agents and acids.

- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Harmful if swallowed. Causes irritation to eyes, skin, and respiratory tract.
- **Chronic Effects:** Prolonged exposure may cause dermatitis or sensitization.

Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic organisms in high concentrations.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low potential for bioaccumulation.

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:** Flammable liquid, n.o.s. (Angelica Lactone)
- **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.