

Material Safety Data Sheet (MSDS)

Spilanthol

Revision Date: 22-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Spilanthol
- **Chemical Formula:** C₁₄H₂₃NO
- **CAS No:** 25394-57-4
- **Synonyms:** Affinin; N-isobutyl-2E,6Z,8E-decatrienamide
- **Recommended Use** Laboratory chemical; cosmetic ingredient; flavoring agent.

Section 2: Hazards Identification

- **Classification (GHS):** Skin irritation, Eye irritation.
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes skin irritation

☎ +91-9227788155 | +91-9227788115 | +91-9227070667 | +91-260-6618618

✉ info@triveniinterchem.com | info@trivenichemical.com

🌐 www.triveniinterchem.com | www.trivenichemical.com

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



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- Causes serious eye irritation

• **Precautionary Statements:**

- Wash thoroughly after handling

- 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:** 100%

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 and easy to do. Get medical attention if irritation persists.

• **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical attention if feeling unwell.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide (CO₂); water spray.
- **Specific Hazards:** Emits toxic fumes of carbon oxides and nitrogen oxides under fire conditions.
- **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.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect in suitable container for disposal.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors and contact with skin/eyes. Use with adequate ventilation.
- **Storage:** Keep container tightly closed. Store in a cool, dry, well-ventilated place away from oxidizing agents.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **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:** Yellowish to colorless oily liquid
- **Odor:** Characteristic pungent odor
- **Boiling Point:** 150-160 °C
- **Flash Point:** >100 °C
- **Solubility:** Insoluble in water; soluble in alcohol and organic solvents
- **Molecular Weight:** 221.34 g/mol

Section 10: Stability and Reactivity

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

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Causes skin and eye irritation; may cause oral numbness and tingling.
- **Chronic Effects:** Prolonged exposure may cause dermatitis or mucous membrane irritation.

Section 12: Ecological Information

- **Ecotoxicity:** May be harmful to aquatic life.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low potential.

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

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (TSCA, EINECS, etc.).
- 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.