

## Material Safety Data Sheet (MSDS)

### Musk Ambrette

Revision Date: 25-September-2025

Version: 1.0

### Section 1: Product Identification

- **Product Name:** Musk Ambrette
- **Chemical Formula:** C<sub>12</sub>H<sub>16</sub>N<sub>2</sub>O<sub>5</sub>
- **CAS No:** 83-66-9
- **Synonyms:** 2,6-Dinitro-3-methoxy-4-tert-butyltoluene
- **Recommended Use:** Used in fragrance formulations for soaps, cosmetics, and perfumes.

### Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritant (Category 2); Eye Irritant (Category 2A); Aquatic Chronic Hazard (Category 2)
- **Signal Word:** Warning
- **Hazard Statements:**
  - Causes skin irritation
  - Causes serious eye irritation
  - Toxic to aquatic life with long lasting effects
- **Precautionary Statements:**
  - Avoid release to the environment

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- Wear protective gloves, protective clothing, and eye protection
- Wash thoroughly after handling
- If on skin: wash with plenty of water
- If in eyes: rinse cautiously with water for several minutes

## Section 3: Composition / Information on Ingredients

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

## Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms occur, seek medical attention.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing and seek medical advice.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical advice immediately.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).
- **Specific Hazards:** Emits toxic fumes of nitrogen oxides and carbon oxides under fire conditions.

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

## Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid inhalation and contact with skin/eyes. Use protective equipment. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Collect spillage mechanically. Store in suitable closed containers for disposal. Wash spill area thoroughly.

## Section 7: Handling and Storage

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

## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Ensure adequate ventilation.
- **Personal Protective Equipment:** Safety goggles, gloves, protective clothing; respirator if dust formation likely.

## Section 9: Physical and Chemical Properties

- **Appearance:** Pale yellow crystalline solid
- **Odor:** Mild musky odor
- **Melting Point:** 83–85 °C
- **Boiling Point:** Decomposes before boiling
- **Flash Point:** Not applicable (solid)
- **Solubility:** Insoluble in water; soluble in ethanol and organic solvents
- **Molecular Weight:** 268.27 g/mol

## Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage and handling conditions.
- **Incompatible Materials:** Strong oxidizers, strong acids, and bases.
- **Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides.
- **Conditions to Avoid:** Excessive heat, open flames, sparks.

## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** May cause irritation to skin, eyes, and respiratory tract. Oral LD50 (rat): >5,000 mg/kg.
- **Chronic Effects:** Prolonged exposure may cause dermatitis; no evidence of carcinogenicity.

## Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic organisms with long lasting effects.
- **Persistence and Degradability:** Expected to be persistent in the environment.
- **Bioaccumulative Potential:** Potential to bioaccumulate.
- **Mobility in Soil:** Low mobility due to low solubility in water.

## Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations. Do not release to the environment.

## Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Musk Ambrette
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

## Section 15: Regulatory Information

- Listed on some chemical inventories; may be restricted in certain countries due to environmental concerns.
- Complies with Indian chemical safety regulations.

## Section 16: Other Information

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