

CHEMICAL WITHOUT BORDERS-POWERED BY INDIA

CIN No.: U24100GJ2010PTC060594 GST No.: 24AADCT5202F1ZU

MSME No: UDYAM-GJ-25-0009026

ISO 9001:2015 | QMS/NAB-C21601/1645

Material Safety Data Sheet (MSDS)

Muskolide

Revision Date: 14-October-2025

Version: 1.0

Section 1: Product Identification

• Product Name: Muskolide

• Chemical Formula: C14H18N2O4

• Cas No: -Na

- **Synonyms**: Muskolide; macrocyclic musk compound; 3-Methylcyclopentadecan-1-one derivative.
- **Recommended Use:** Used as a fragrance ingredient providing musky, sweet, and powdery notes; employed in fine fragrances, soaps, and personal care formulations.

Section 2: Hazards Identification

- Classification (Ghs): Not classified as flammable (low volatility); Skin irritation; Eye irritation; Aquatic Chronic 3.
- Signal Word: Warning



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- Hazard Statements: Combustible liquid. Causes skin and eye irritation. Harmful to aquatic life with long lasting effects.
 - 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: 95%

Section 4: First Aid Measures

- Inhalation: Remove victim to fresh air and keep at rest. Seek medical attention if symptoms occur.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops.
- Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical advice.

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• **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention.

Section 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Foam, carbon dioxide, or dry chemical. Avoid direct water jets.
- **Specific Hazards:** Vapors may form explosive mixtures with air. Combustion produces carbon oxides.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective gear.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid contact with skin and eyes. Remove ignition sources. Ensure good ventilation.
- Environmental Precautions: Prevent leakage into drains, surface, or ground water.
- **Cleanup Methods:** Absorb with inert material such as sand or vermiculite. Dispose of in accordance with local regulations.

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Section 7: Handling and Storage

- **Handling:** Handle in well-ventilated areas. Avoid breathing vapors and contact with skin and eyes. Keep away from heat and flame.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated area. Keep away from oxidizers and strong acids.

Section 8: Exposure Controls / Personal Protection

- Exposure Limits: No exposure limits established.
- Engineering Controls: Provide adequate ventilation, especially in confined areas.
- **Personal Protective Equipment:** Wear gloves, goggles, and protective clothing. Use respiratory protection if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- Appearance: White to pale yellow crystalline solid or viscous liquid.
- Odor: Sweet, musky, powdery odor.
- Boiling Point: 421 °C.
- Flash Point: 150 °C (closed cup).
- **Solubility:** Insoluble in water; soluble in alcohols and organic solvents.
- Molecular Weight: 254.41 g/mol.

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Section 10: Stability and Reactivity

- Stability: Stable under normal handling and storage conditions.
- Incompatible Materials: Strong oxidizing agents and strong acids.
- Hazardous Decomposition Products: Carbon oxides under fire conditions.

Section 11: Toxicological Information

- Routes of Exposure: Inhalation, ingestion, skin and eye contact.
- Acute Effects: Causes skin and eye irritation.
- Chronic Effects: Prolonged exposure may cause dermatitis or sensitization.

Section 12: Ecological Information

- Ecotoxicity: Harmful to aquatic life with long-lasting effects.
- Persistence and Degradability: Expected to be biodegradable.
- Bioaccumulative Potential: Low potential for bioaccumulation.

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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: Na

• Proper Shipping Name: Non-hazardous fragrance material (Muskolide).

• Hazard Class: 9

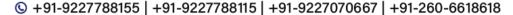
• Packing Group: III

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.
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