

Material Safety Data Sheet (MSDS)

Dodecyl Alcohol

Revision Date: 24-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Dodecyl Alcohol
- **Chemical Formula:** C₁₂H₂₆O
- **CAS No:** 112-53-8
- **Synonyms:** Lauryl Alcohol; 1-Dodecanol; n-Dodecyl Alcohol
- **Recommended Use:** Surfactant/intermediate for detergents, personal care, lubricants; solvent; chemical intermediate.

Section 2: Hazards Identification

- **Classification (GHS):** Skin Irritant (Category 2); Eye Irritant (Category 2A); Aquatic Chronic Hazard (Category 3)
- **Signal Word:** Warning
- **Hazard Statements:**
 - Causes skin irritation
 - Causes serious eye irritation
 - Harmful to aquatic life with long lasting effects
- **Precautionary Statements:**

+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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- Avoid contact with skin and eyes; wash thoroughly after handling
- Wear protective gloves and eye protection
- Avoid release to the environment

Section 3: Composition / Information on Ingredients

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

Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. If respiratory irritation occurs, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Get medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention if unwell.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide (CO_2).
- **Specific Hazards:** Combustion may produce carbon oxides. Vapors may form explosive mixtures with air at elevated temperatures.

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

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid skin/eye contact. Ensure adequate ventilation. Use personal protective equipment.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Contain spill. Absorb with inert material (sand, earth, vermiculite). Collect in suitable container for disposal.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors/mist. Avoid contact with skin and eyes. Use with adequate ventilation.
- **Storage:** Keep container tightly closed in a cool, dry, well-ventilated place away from heat and oxidizing agents. May solidify near room temperature—warm gently to liquefy.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** No specific occupational exposure limits established.
- **Engineering Controls:** Provide local exhaust/adequate general ventilation.
- **Personal Protective Equipment:** Protective gloves, safety goggles/face shield, protective clothing; respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** solid
- **Odor:** Mild, fatty odor
- **Melting Point:** 22 - 26 °C
- **Boiling Point:** 260 - 262 °C
- **Flash Point:** 121 °C (closed cup)
- **Solubility:** Insoluble in water; soluble in ethanol and most organic solvents
- **Molecular Weight:** 186.33 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents; 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; high vapor/mist may irritate respiratory tract.
Oral LD50 (rat) 5,000 mg/kg (typical for higher alcohols).
- **Chronic Effects:** Prolonged or repeated contact may cause dermatitis.

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic organisms at high concentrations.
- **Persistence and Degradability:** Readily biodegradable.
- **Bioaccumulative Potential:** Low to moderate potential.

Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations. Avoid release to the environment.

Section 14: Transport Information

- **UN Number:** UN3077
- **Proper Shipping Name:** Dodecyl Alcohol
- **Hazard Class:** 9
- **Packing Group:** III

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (e.g., TSCA, EINECS).
- Classified as hazardous substance as per GHS (irritant).

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 liability for damage resulting from handling or contact.

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