

Material Safety Data Sheet (MSDS)

1-Butanol

Revision Date: 22-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** 1-Butanol
- **Chemical Formula:** C₄H₁₀O
- **CAS No:** 71-36-3
- **Synonyms:** n-Butanol, n-Butyl alcohol, Butan-1-ol
- **Recommended Use:** Solvent, intermediate in organic synthesis, used in coatings and cleaning formulations.

Section 2: Hazards Identification

- **Classification (GHS):** Flammable liquid, Acute toxicity oral, Eye irritation, Specific target organ toxicity single exposure.
- **Signal Word:** Danger
- **Hazard 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



www.chemicalbull.com

GROUP OF Triveni CHEMICALS

- Flammable liquid and vapor
- Harmful if swallowed
- Causes serious eye irritation
- Keep away from heat, sparks, open flames. No smoking
- Wear protective gloves and eye protection
- Avoid breathing vapors

Section 3: Composition / Information on Ingredients

- **Concentration:** >99%

Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen. 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. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Call a poison center/doctor immediately.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO₂).
- **Specific Hazards:** Flammable liquid and vapor; may produce irritating vapors; combustion generates carbon oxides.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Eliminate all ignition sources. Use personal protective equipment. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains, surface waters and soil.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect into suitable container for proper disposal.

Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors. Avoid contact with skin and eyes. Use only in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from heat and open flames.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** OSHA PEL: 100 ppm (300 mg/m³) TWA; ACGIH TLV: 20 ppm TWA.
- **Engineering Controls:** Ensure adequate ventilation and local exhaust at sources of vapor.
- **Personal Protective Equipment:** Chemical-resistant gloves, protective goggles, lab coat; respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

- **Appearance:** Colorless liquid
- **Odor:** Strong, characteristic alcoholic odor
- **Boiling Point:** 117 - 118 °C
- **Flash Point:** 35 °C (closed cup)
- **Solubility:** Miscible with water and organic solvents
- **Molecular Weight:** 74.12 g/mol

Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents, acids, acid chlorides, acid anhydrides.

- **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Harmful if swallowed; causes eye irritation; may cause central nervous system depression.
- **Chronic Effects:** Prolonged exposure may cause dermatitis, liver and kidney effects.

Section 12: Ecological Information

- **Ecotoxicity:** Toxic to aquatic organisms in high concentrations.
- **Persistence and Degradability:** Readily 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:** UN1120
- **Proper Shipping Name:** Butanols
- **Hazard Class:** 3
- **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. **Triveni chemicals** disclaims any liability for damage resulting from handling or contact.