

## Material Safety Data Sheet (MSDS)

### N-Butyraldehyde

Revision Date: 22-September-2025

Version: 1.0

#### Section 1: Product Identification

- **Product Name:** N-Butyraldehyde
- **Chemical Formula:** C<sub>4</sub>H<sub>8</sub>O
- **CAS No:** 123-72-8
- **Synonyms:** Butanal, Butyric Aldehyde
- **Recommended Use** Intermediate in organic synthesis, production of resins, plasticizers, and solvents.

#### Section 2: Hazards Identification

- **Classification (GHS):** Flammable Liquid (Category 2), Acute Toxicity (Category 4, inhalation/dermal/oral), Skin Irritant (Category 2), Eye Irritant (Category 2A).
- **Signal Word:** Danger
- **Hazard Statements:**

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- Highly flammable liquid and vapor
- Harmful if swallowed, inhaled, or in contact with skin
- Causes skin and eye irritation

• **Precautionary Statements:**

- Keep away from heat, sparks, open flames, hot surfaces
- Wear protective gloves, protective clothing, and eye/face protection
- Avoid breathing vapors
- Wash hands thoroughly after handling

## Section 3: Composition / Information on Ingredients

- **Chemical Name:** N-Butyraldehyde
- **CAS No:** 123-72-8
- **Concentration:**  $\geq 95\%$

## Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air immediately. Seek medical attention if symptoms occur.
- **Skin Contact:** Wash with soap and plenty of water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.

- **Ingestion:** Do not induce vomiting. Rinse mouth and seek immediate medical advice.

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## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical, carbon dioxide (CO<sub>2</sub>).
- **Specific Hazards:** Highly flammable. Vapors may form explosive mixtures with air.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

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## Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Remove ignition sources. 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.

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## Section 7: Handling and Storage

- **Handling:** Handle in a chemical fume hood. Avoid contact with skin and eyes. Avoid inhalation of vapors.
- **Storage:** Store in a tightly closed container in a cool, dry, well-ventilated area. Keep away from heat and ignition sources.

## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** ACGIH TLV: 50 ppm (150 mg/m<sup>3</sup>) TWA.
- **Engineering Controls:** Ensure adequate ventilation, preferably with local exhaust.
- **Personal Protective Equipment:** Chemical-resistant gloves, protective goggles, lab coat, appropriate respirator.

## Section 9: Physical and Chemical Properties

- **Appearance:** Colorless liquid
- **Odor:** Pungent, suffocating odor
- **Boiling Point:** 74 – 76 °C
- **Flash Point:** -7 °C (closed cup)
- **Solubility:** Slightly soluble in water, miscible with most organic solvents
- **Molecular Weight:** 72.11 g/mol

## Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents, acids, bases.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Harmful if swallowed, inhaled, or absorbed through skin.
- **Irritation:** Causes skin and eye irritation.
- **Carcinogenicity:** Not classified as carcinogen.

## Section 12: Ecological Information

- **Ecotoxicity:** 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.
- Avoid release into the environment.

## Section 14: Transport Information

- **UN Number:** 1129

- **Proper Shipping Name:** Butyraldehydes, N-
- **Hazard Class:** 3 (Flammable liquid)
- **Packing Group:** II

## Section 15: Regulatory Information

- Classified as hazardous substance under Indian chemical safety regulations and GHS.
- Listed under international chemical inventories (TSCA, EINECS, etc.).

## 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.