

Material Safety Data Sheet (MSDS)

Butyl Acetate

CAS Number: 123-86-4

Prepared by: Triveni Chemicals

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Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **Product Name:** n-Butyl Acetate
- **Synonyms:** Butyl acetate; Acetic acid, butyl ester; 1-Butyl acetate
- **Recommended Use:** Laboratory chemicals, synthesis of substances
- **Supplier:**

Triveni Chemicals

Office No. 123-124, Pancharatna,
Char Rasta, GIDC,
Vapi - 396195, Gujarat, India

 +91-9696960250

 info@trivenichemical.com

 +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

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SECTION 2: Hazards Identification

- **GHS Classification:**
 - Flammable liquids (Category 3), H226
 - Specific target organ toxicity – single exposure (Category 3), H336
- **Signal Word:** *Warning*
- **Hazard Statements:**
 - H226: Flammable liquid and vapor
 - H336: May cause drowsiness or dizziness
- **Precautionary Statements:**
 - P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 - P233: Keep container tightly closed
 - P240: Ground/bond container and receiving equipment
 - P241: Use explosion-proof electrical/ventilating/lighting equipment
 - P242: Use only non-sparking tools
 - P243: Take precautionary measures against static discharge
 - P261: Avoid breathing dust/fume/gas/mist/vapors/spray
 - P271: Use only outdoors or in a well-ventilated area
 - P312: Call a POISON CENTER or doctor/physician if you feel unwell
 - P403+P233: Store in a well-ventilated place. Keep container tightly closed
 - P403+P235: Store in a well-ventilated place. Keep cool
 - P501: Dispose of contents/container in accordance with local/regional/national/international regulations

SECTION 3: Composition/Information on Ingredients

Component	CAS No.	Concentration
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n-Butyl Acetate	123-86-4	≥99%
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SECTION 4: First Aid Measures

- **Inhalation:** Move to fresh air. If breathing is difficult, administer oxygen. Seek medical attention if symptoms persist.
- **Skin Contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water. Seek 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 attention if irritation persists.
- **Ingestion:** Rinse mouth with water. Do NOT induce vomiting. Seek immediate medical attention.

SECTION 5: Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO₂).
- **Special Hazards:** Flammable liquid and vapor. Vapors may form explosive mixtures with air.

- **Protective Equipment:** Wear self-contained breathing apparatus and full protective gear.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition.
- **Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- **Methods for Cleaning Up:** Absorb with inert material and place in chemical waste container. Dispose of according to local regulations.

SECTION 7: Handling and Storage

- **Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapors or mist. Provide appropriate exhaust ventilation.
- **Storage:** Store in a cool, dry, and well-ventilated place. Keep container tightly closed. Store locked up.

SECTION 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Ensure adequate ventilation, especially in confined areas.
- **Personal Protective Equipment:**

- **Eye/Face Protection:** Safety goggles
- **Skin Protection:** Protective gloves and clothing
- **Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	Colorless liquid
Odor	Fruity
Melting Point	-78 °C
Boiling Point	126 °C
Flash Point	27 °C
Density	0.8825 g/cm ³ at 20 °C
Solubility in Water	5.3 g/l at 20 °C
Vapor Pressure	11.2 hPa at 20 °C
Partition Coefficient (n-octanol/water)	2.3 at 25 °C
Autoignition Temperature	415 °C

SECTION 10: Stability and Reactivity

- **Chemical Stability:** Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents, strong acids, strong bases.
- **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.
- **Conditions to Avoid:** Heat, flames, sparks.

SECTION 11: Toxicological Information

- **Acute Toxicity:**
 - **Oral LD₅₀ (Rat):** 10,768 mg/kg
 - **Dermal LD₅₀ (Rabbit):** >14,000 mg/kg
 - **Inhalation LC₅₀ (Rat):** >21.1 mg/L (4 h)
- **Skin Corrosion/Irritation:** Not irritating to the skin
- **Serious Eye Damage/Irritation:** May cause slight eye irritation
- **Respiratory or Skin Sensitization:** Not classified
- **Germ Cell Mutagenicity:** Not classified
- **Carcinogenicity:** Not classified
- **Reproductive Toxicity:** Not classified
- **Specific Target Organ Toxicity – Single Exposure:** May cause drowsiness or dizziness
- **Specific Target Organ Toxicity – Repeated Exposure:** Not classified
- **Aspiration Hazard:** Not classified

SECTION 12: Ecological Information

- **Aquatic Toxicity:**
 - **LC₅₀ (Fish, 96 h):** 18 mg/L (Pimephales promelas)
 - **EC₅₀ (Daphnia magna, 48 h):** 44 mg/L
 - **EC₅₀ (Algae, 72 h):** 397 mg/L (Pseudokirchneriella subcapitata)
- **Persistence and Degradability:** Readily biodegradable
- **Bioaccumulative Potential:** Low potential (log Kow = 1.82)
- **Mobility in Soil:** High mobility due to low adsorption to soil particles
- **Other Adverse Effects:** None known

SECTION 13: Disposal Considerations

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

SECTION 14: Transport Information

- **UN Number:** UN1123
- **UN Proper Shipping Name:** Butyl Acetates
- **Transport Hazard Class:** 3 (Flammable liquids)
- **Packing Group:** III
- **Environmental Hazards:** Not applicable

- **Special Precautions for User:** None

SECTION 15: Regulatory Information

- **Safety, Health, and Environmental Regulations:**
 - Listed on TSCA (US), EINECS (EU)
 - Not listed under REACH SVHC

SECTION 16: Other Information

Prepared By: Triveni Chemicals, Regulatory Affairs Department

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