

BUTYL ACETATE

Date of compilation: 25-07-2026 | Revised: 25-07-2026 | Version: 1

SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

BUTYL ACETATE

Synonyms: n-Butyl acetate; Acetic acid n-butyl ester; 1-Butanol acetate

CAS: 123-86-4

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Solvent for paints, lacquers, coatings and inks, extraction solvent, flavouring/fragrance industry raw material, cleaning formulations. For industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Supplier's details:

SURAJ CHEMICALS

No 92, Govindappa Naicken Street, Shiva Complex, Chennai – 600001, Tamil Nadu, India

Tel: +91 - 7092722822, +91 - 9840284032 / +91 - 44 - 25393652, 42130281

Email: sales@surajchemicals.com | Website: www.surajchemicals.com

GST No: 33ACEPV8190L1ZZ

1.4 Emergency phone number:

Emergency Contact No: +91 - 7092722822, +91 - 9840284032

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GHS:

Classification of this product has been carried out in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Flam. Liq. 3	Flammable liquid, Category 3, H226
STOT SE 3	Narcotic effects, single exposure, Category 3, H336

2.2 GHS label elements, including precautionary statements:

GHS: Warning

Hazard statements:

Flam. Liq. 3: H226 – Flammable liquid and vapour.

STOT SE 3: H336 – May cause drowsiness or dizziness.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/eye protection.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P370+P378: In case of fire, use foam, dry chemical, CO₂ or water spray to extinguish.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of the contents/containers in accordance with regulations on hazardous waste.

2.3 Other hazards which do not result in classification:

Not relevant. Does not meet the PBT/vPvB criteria.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical description: n-Butyl Acetate (technical grade)

In accordance with Annex 4.3.3 of the GHS, the product contains:

Identification	Chemical Name / Classification	Concentration
CAS: 123-86-4	Butyl Acetate — Flam. Liq. 3: H226; STOT SE 3: H336 – Warning	≥ 99%

To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

3.2 Mixtures:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide fresh air and keep at rest. High vapour concentrations may cause drowsiness/dizziness. Seek medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing, wash skin thoroughly with water and soap. Seek medical attention if irritation persists.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

By ingestion/aspiration:

Do not induce vomiting (risk of aspiration). Rinse the mouth with water. Seek medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not relevant

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Suitable: Foam (alcohol-resistant), dry chemical powder, carbon dioxide, water spray/fog for cooling containers
Unsuitable: Do not use a solid water jet as it may scatter and spread the fire

5.2 Specific hazards arising from the chemical:

Flammable liquid and vapour. Vapours may form explosive mixtures with air and travel to an ignition source.

5.3 Special protective actions for fire-fighters:

Evacuate all non-essential personnel. Intervention only by capable personnel who are trained and aware of the hazards of the product. In all cases wear self-contained breathing apparatus. When intervention in close proximity, wear full protective chemical-resistant suit. After intervention, proceed to clean the equipment (take a shower, remove clothing carefully, clean and check).

Additional provisions:

Cool fire-exposed containers with water spray from a safe distance. Approach from upwind. Contain fire-fighting water to prevent environmental release.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Eliminate ignition sources. Ventilate the area. Contain the spill (bundling/absorbent) provided there is no additional risk. Use appropriate PPE (see section 8).

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

Avoid release to drains, watercourses or soil. Contain spillage with inert absorbent material. Notify the relevant authority in case of significant environmental release.

6.3 Methods and materials for containment and cleaning up:

Absorb with inert non-combustible absorbent material (sand, vermiculite) and place in a labelled, closed container for disposal (preferably recovered for recycling).

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A. General precautions for safe use:

Keep away from heat, sparks, open flame and other ignition sources. Use only in well-ventilated areas. Ground and bond containers during transfer to prevent static discharge.

B. Technical recommendations for the prevention of fires and explosions:

Store and handle away from oxidizing agents, strong acids/bases and ignition sources. Use bonding/grounding for all transfer operations.

C. Technical recommendations on general occupational hygiene:

Do not eat or drink during the process; wash hands afterwards with suitable cleaning products.

D. Technical recommendations to prevent environmental risks:

Provide tight electrical equipment well protected against corrosion. Avoid atmospheric emissions. Warn people about the dangers of the product. Follow the protective measures given in the exposure controls/personal protection section. In industrial installations, apply the rules for the prevention of major accidents (consult an expert).

7.2 Conditions for safe storage, including any incompatibilities:

A. Specific storage requirements:

Minimum Temp.	5°C
Maximum Temp.	35°C (cool, well-ventilated, away from direct sunlight)
Maximum time	24 Months in original sealed packaging

B. General conditions for storage:

Store in a cool, dry, well-ventilated area away from heat, ignition sources, direct sunlight, strong acids/bases and oxidizing agents, in tightly closed containers. For additional information see subsection 10.5.

7.3 Specific end use(s):

Except for the instructions already specified, it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace, per the Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987):

Identification	Occupational Exposure Limit Type	Value
Butyl Acetate (n-) CAS: 123-86-4	ACGIH TLV – TWA (8 hrs)	150 ppm
Butyl Acetate (n-) CAS: 123-86-4	ACGIH TLV – STEL (15 min)	200 ppm

8.2 Appropriate engineering controls:

It is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding occupational exposure limits, in addition to individual protective equipment (PPE) as needed. Consult the manufacturer's information leaflet for storage, use, cleaning and maintenance of PPE.

B. Respiratory protection:

Not normally required with adequate ventilation. For higher vapour concentrations, use an organic vapour cartridge respirator.

C. Specific protection for the hands:

Chemical-resistant gloves (e.g. nitrile, PVA).

D. Eye and face protection:

Safety glasses or chemical splash goggles.

E. Bodily protection:

Flame-retardant / antistatic clothing where flammable atmospheres may be present.

F. Additional emergency measures:

Emergency shower (ANSI Z358-1, ISO 3864-1:2011, ISO 3864-4:2011) and eyewash stations (DIN 12 899, ISO 3864-1:2011, ISO 3864-4:2011) should be available.

Environmental exposure controls:

Avoid environmental spillage of both the product and its container. See subsection 7.1.D.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	
Physical state at 20°C	Liquid
Appearance	Clear, mobile liquid
Color	Colorless
Odor	Fruity, banana-like
Odour threshold	~0.02–7 ppm (variable)
Volatility	
Boiling point at atmospheric pressure	126°C
Vapour pressure at 20°C	~1.5 kPa (11 mmHg)
Evaporation rate (n-BuAc = 1)	1.0 (reference standard)
Product Description	
Density / Relative density at 20°C	0.88 g/cm³
Dynamic / Kinematic viscosity at 20°C	~0.73 mPa·s
Concentration	≥ 99%
pH	Not applicable (neutral, non-aqueous)
Vapour density (air = 1)	~4.0
Partition coefficient n-octanol/water (log Pow)	1.78
Solubility in water at 20°C	~7 g/L (low)
Decomposition temperature	Not established
Melting point/freezing point	-78°C
Flammability	
Flash Point	22–27°C (closed cup)
Flammability (solid, gas)	Non-applicable (liquid); flammable
Autoignition temperature	370°C
Lower / Upper flammability limit	1.4% / 7.6% (vol. in air)
Particle Characteristics	
Median equivalent diameter	Non-applicable (liquid)

9.2 Other information:

Explosive properties	Not classified as explosive; vapour/air mixtures are flammable within the flammability limits
Oxidising properties	Not an oxidizer
Corrosive to metals	Not classified
Heat of combustion	~29.6 kJ/g (approx.)
Surface tension at 20°C	~25 mN/m
Refraction index	~1.394

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:**
No reactivity hazard under normal conditions of storage, handling and use. Slowly hydrolyses in the presence of water/moisture and strong acids/bases (forming butanol and acetic acid). Reacts with strong oxidizing agents.
- 10.2 Chemical stability:**
Chemically stable under the indicated conditions of storage, handling and use.
- 10.3 Possibility of hazardous reactions:**
Vapours can form explosive mixtures with air. Under recommended storage conditions no other hazardous reactions are expected.

10.4 Conditions to avoid:

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Vapour/air mixtures flammable	Avoid heat/ignition sources	Not applicable	Avoid prolonged moisture contact (hydrolysis)

10.5 Incompatible materials:

Strong Oxidizing Agents	Strong Acids/Bases	Ignition Sources
Avoid contact	Avoid contact – hydrolysis	Avoid – flammable liquid/vapour

- 10.6 Hazardous decomposition products:**
Carbon monoxide and carbon dioxide on combustion; no hazardous decomposition under normal storage.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects:**
In case of exposure that is repetitive, prolonged, or at concentrations higher than the recommended occupational exposure limits, adverse health effects may result depending on the means of exposure:
- A. Ingestion (acute effect):**
Low acute oral toxicity. May cause mild gastrointestinal irritation if swallowed in quantity.
- B. Inhalation (acute effect):**
Vapours may cause irritation of the respiratory tract and drowsiness/dizziness (narcotic effect) at high concentrations.
- C. Contact with skin and eyes (acute effect):**
May cause mild irritation on contact with skin or eyes; not classified as a skin/eye irritant under standard criteria.
- D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):**
Classification criteria for carcinogenicity, mutagenicity and reproductive toxicity are not met based on available data. IARC: Not classified.
- E. Sensitizing effects:**

Classification criteria for respiratory or skin sensitisation are not met based on available data.

F. Specific target organ toxicity (STOT) – single exposure:

May cause drowsiness or dizziness (H336) due to narcotic vapour effects at high concentrations.

G. Specific target organ toxicity (STOT) – repeated exposure:

Classification criteria are not met based on available data.

H. Aspiration hazard:

Classification criteria are not met based on available data.

Product-specific toxicological information:

Identification	Acute Toxicity	Genus
n-Butyl Acetate (technical grade) CAS: 123-86-4	LD50 oral: 10768 mg/kg	Rat
	LD50 dermal: >17600 mg/kg	Rabbit
	LC50 inhalation: >4000 ppm (4h, no mortality reported)	Rat

SECTION 12: ECOLOGICAL INFORMATION

Not classified as hazardous to the aquatic environment under standard GHS criteria.

12.1 Toxicity:

Identification	Acute Toxicity	Species	Genus
Butyl Acetate CAS: 123-86-4	LC50: 18 mg/L (96h)	Pimephales promelas	Fish
	EC50: 26.6 mg/L (48h)	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Readily biodegradable under standard OECD test conditions.

12.3 Bioaccumulative potential:

Low-to-moderate bioaccumulation potential (log Pow 1.78).

12.4 Mobility in soil:

Koc	Henry	Dry Soil	Moist Soil
~30–60	~9.4×10 ⁻⁵ atm·m³/mol	Volatilises	Low solubility, disperses

12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of Annex XIII.

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Preferably recover/recycle by distillation where feasible. Otherwise incinerate in a licensed hazardous waste incinerator with afterburner and emission control. For packaging: drain thoroughly; empty containers may retain flammable vapour.

Refer to national and local regulations on waste management, including the Hazardous and Other Wastes (Management and Transboundary Movement) Rules.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR 2023 / RID 2023):

14.1 UN number	UN1123
14.2 UN proper shipping name	BUTYL ACETATES
14.3 Transport hazard class(es)	3
14.4 Packing group	III
14.5 Environmental hazard	No
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by sea (IMDG 41-22):

14.1 UN number	UN1123
14.2 UN proper shipping name	BUTYL ACETATES
14.3 Transport hazard class(es)	3
14.4 Packing group	III
14.5 Marine pollutant	No
14.6 Special precautions for user	EmS Codes: F-E, S-D Limited quantities: 5 L Segregation group: Not relevant
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by air (IATA/ICAO 2024):

14.1 UN number	UN1123
14.2 UN proper shipping name	BUTYL ACETATES
14.3 Transport hazard class(es)	3
14.4 Packing group	III
14.5 Environmental hazard	No
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of local circumstances, in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)

The Chemical Accidents (Emergency Planning, Preparedness, and Response) Rules, 1996

Public Liability Insurance Act, 1991

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Texts of the legislative phrases mentioned in sections 2 and 3:

- H226: Flammable liquid and vapour.
- H336: May cause drowsiness or dizziness.

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

The United Nations Economic Commission for Europe (UNECE); European Chemicals Agency (ECHA) classification and labelling inventory; ACGIH Threshold Limit Values.

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road | IMDG: International maritime dangerous goods code | IATA: International Air Transport Association | ICAO: International Civil Aviation Organisation | COD: Chemical Oxygen Demand | BOD5: 5-day biochemical oxygen demand | BCF: Bioconcentration factor | LD50: Lethal Dose 50 | LC50: Lethal Concentration 50 | EC50: Effective Concentration 50 | Log-POW: Octanol-water partition coefficient | Koc: Partition coefficient of organic carbon | IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET