

Safety data sheet

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BASF Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 13.09.2023 Version: 3.0

Product: n-BUTYL ACETATE

(ID no. 30034818/SDS_GEN_IL/EN)

Date of print 21.10.2025

1. Identification

Product identifier

n-BUTYL ACETATE

Chemical name: n-Butyl acetate INDEX-Number: 607-025-00-1 CAS Number: 123-86-4

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: solvent(s)

Details of the supplier of the safety data sheet

Company:
BASF SE
67056 Ludwigshafen
GERMANY
Operating Division Petrochemicals

Telephone: +49 621 60-42151

E-mail address: sds-petrochemicals@basf.com

Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

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Flam. Liq. 3

STOT SE 3 (Vapours may cause drowsiness and dizziness.)

Aquatic Acute 3

For the classifications not written out in full in this section the full text can be found in section 16.

Label elements

Globally Harmonized System (GHS)

Pictogram:





Signal Word: Warning

Hazard Statement:

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

H402 Harmful to aquatic life.

Precautionary Statements (Prevention):

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

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P280 Wear protective gloves and eye protection or face protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P243 Take action to prevent static discharges.

P273 Avoid release to the environment.

P241 Use explosion-proof electrical, ventilating and lighting equipment.

P240 Ground and bond container and receiving equipment.

P242 Use non-sparking tools.

Precautionary Statements (Response):

P312 Call a POISON CENTER or physician if you feel unwell.

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

breathing.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P370 + P378 In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder

or water spray for extinction.

Precautionary Statements (Storage):

P233 Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste

collection point.

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Labeling of special preparations (GHS): Repeated exposure may cause skin dryness or cracking.

Other hazards

According to UN GHS criteria

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

See section 12 - Results of PBT and vPvB assessment.

3. Composition/Information on Ingredients

Substances

Chemical nature

n-Butyl acetate (Content (W/W): >= 99,5 %)

CAS Number: 123-86-4 EC-Number: 204-658-1 INDEX-Number: 607-025-00-1

Hazardous ingredients (GHS)

According to UN GHS criteria

n-Butyl acetate

Content (W/W): >= 99.5 % - <= Flam. Liq. 3

99,8 % STOT SE 3 (drowsiness and dizziness)

CAS Number: 123-86-4 Aquatic Acute 3 EC-Number: 204-658-1 H226, H336, H402

INDEX-Number: 607-025-00-1 EUH066

Butan-1-ol

Content (W/W): >= 0.15 % - <= Flam. Liq. 3

0,15 % Acute Tox. 5 (oral)

CAS Number: 71-36-3 Acute Tox. 5 (dermal) EC-Number: 200-751-6 Skin Corr./Irrit. 2 Eye Dam./Irrit. 1

STOT SE 3 (drowsiness and dizziness) STOT SE 3 (irr. to respiratory syst.)

H226, H318, H315, H336, H335, H303 + H313

For the classifications not written out in full in this section the full text can be found in section 16.

Mixtures

Not applicable

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4. First-Aid Measures

Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: Danger of drowsiness and dizziness.

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

dry powder, water spray, carbon dioxide, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Use extinguishing measures to suit surroundings.

Special hazards arising from the substance or mixture

Flammable liquid Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

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Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus. Special protective equipment for firefighters

Further information:

Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

High risk of slipping due to leakage/spillage of product.

Release of substance/product can cause fire or explosion. Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

Environmental precautions

Discharge into the environment must be avoided.

Methods and material for containment and cleaning up

Pick up with suitable appliance and dispose of. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Ground all transfer equipment properly to prevent electrostatic discharge.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place.

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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8. Exposure Controls/Personal Protection

Control parameters

Components with occupational exposure limits

No substance specific occupational exposure limits known.

Exposure controls

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

butyl rubber (butyl) - 0.7 mm coating thickness

Manufacturer's directions for use should be observed because of great diversity of types. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid inhalation.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form: liquid
Colour: colourless
Odour: fruity

Odour threshold:

not determined

pH value:

not applicable

Melting point: -78 °C

Literature data.

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Boiling point: 124 - 126,5 °C

(1.013 hPa)

Literature data.

Flash point: 27 °C (Directive 92/69/EEC, A.9,

closed cup)

Evaporation rate:

Value can be approximated from Henry's Law Constant or vapor

pressure.

Flammability: Flammable. (derived from flash point)

Lower explosion limit:

For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15

°C below the flash point.

Upper explosion limit:

Relative density:

For liquids not relevant for

classification and labelling.

Ignition temperature: 415 °C (DIN 51794) Vapour pressure: 15 hPa (measured)

(20 °C)

Extrapolated value, static

Density: 0,8812 g/cm3 (DIN 51757)

(20 °C) 0,54 g/cm3 (55 °C) 0,8813

(20 °C)

Literature data.

Relative vapour density (air):4 (calculated)

(20 °C)

Heavier than air.

Solubility in water: pH 6 (Directive 92/69/EEC, A.6)

5,3 g/l (20 °C)

Solubility (qualitative) solvent(s): organic solvents

soluble

Partitioning coefficient n-octanol/water (log Kow): 2,3 (OECD Guideline 117)

(25 °C; pH value: 7)

Self ignition: Based on its structural properties the Test type: Spontaneous self-

product is not classified as self- ignition at room-temperature.

igniting.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, kinematic: 0,83 mm2/s (OECD 114)

(20 °C)

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

Other information

Self heating ability: It is not a substance capable of

spontaneous heating.

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pKA:

Study technically not feasible.

Adsorption/water - soil:

KOC: 18,54; log KOC: 1,27 (calculated)

Surface tension:

Based on chemical structure, surface

activity is not to be expected.

Grain size distribution: The substance / product is marketed or used in a non solid or

granular form.

Molar mass: 116,16 g/mol

10. Stability and Reactivity

Reactivity

When heated can give off ignitable vapours.

Corrosion to metals: No corrosive effect on metal.

Formation of Remarks: Forms no flammable gases in the

flammable gases: presence of water.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Reacts with strong oxidizing agents.

Conditions to avoid

Avoid sources of ignition.

Incompatible materials

Substances to avoid: strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): 10.736 mg/kg (other)

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LC50 rat (by inhalation): > 21,1 mg/l 4 h (OECD Guideline 403)

The vapour was tested.

LC0 rat (by inhalation): > 38,32 mg/l > 8000 ppm 6 h (other)

The vapour was tested.

LD50 rabbit (dermal): > 14.000 mg/kg (other)

Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (other)

Germ cell mutagenicity

Assessment of mutagenicity:

No mutagenic effect was found in various tests with microorganisms and mammalian cell culture. The substance was not mutagenic in studies with mammals.

Carcinogenicity

Assessment of carcinogenicity:

Study does not need to be conducted.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Experiences in humans

Experimental/calculated data:

High concentrations have a narcotizing effect.

Prolonged contact can result in drying of the skin.

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Specific target organ toxicity (single exposure)

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

Has a degreasing effect on skin.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) 18 mg/l, Pimephales promelas (Fish test acute, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

Aquatic invertebrates:

EC50 (48 h) 44 mg/l, Daphnia sp. (Daphnia test acute, static)

Nominal concentration.

Aquatic plants:

EC50 (72 h) 397 mg/l (growth rate), Pseudokirchneriella subcapitata (DIN 38412 Part 9) The statement of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Microorganisms/Effect on activated sludge:

EC50 (40 h) 356 mg/l, Tetrahymena pyriformis (internal method, aquatic)

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 23 mg/l, Daphnia magna (OECD Guideline 211, semistatic) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Assessment of terrestrial toxicity:

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No toxic effects have been observed in studies with terrestric plants.

Soil living organisms:

No data available.

Terrestrial plants:

EC50 (14 d) > 1.000 mg/kg > 1.000 mg/kg, Lactuca sativa (OECD Guideline 208)

Other terrestrial non-mammals:

No data available.

Persistence and degradability

Assessment biodegradation and elimination (H2O):

Readily biodegradable (according to OECD criteria).

Elimination information:

80 % BOD of the ThOD (5 d) (OECD 301D; EEC 92/69, C.4-E) (aerobic, municipal sewage treatment plant effluent)

Assessment of stability in water:

In contact with water the substance will hydrolyse slowly.

Information on Stability in Water (Hydrolysis):

t_{1/2} 782 d, (calculated, pH 7)

Bioaccumulative potential

Assessment bioaccumulation potential:

No significant accumulation in organisms is expected as a result of the distribution coefficient of noctanol/water (log Pow).

Bioaccumulation potential:

No data available.

Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will slowly evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected.

Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification

Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

Additional information

Adsorbable organically-bound halogen (AOX):

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This product contains no organically-bound halogen.

13. Disposal Considerations

Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport

ADR

UN number or ID number: UN1123

UN proper shipping name: BUTYL ACETATES

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Special precautions for

user:

Tunnel code: D/E

acci

RID

UN number or ID number: UN1123

UN proper shipping name: BUTYL ACETATES

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Special precautions for

None known

user:

Inland waterway transport

ADN

UN number or ID number: UN1123

UN proper shipping name: BUTYL ACETATES

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Special precautions for

None known

user:

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<u>Transport in inland waterway vessel</u>
UN number or ID number: UN1123

UN proper shipping name: BUTYLACETATES (n-BUTYLACETATE)

Transport hazard class(es): 3, N3
Packing group: III
Environmental hazards: yes
Type of inland waterway N

vessel:

Cargo tank design: 3 Cargo tank type: 2

Sea transport

IMDG

UN number or ID number: UN 1123

UN proper shipping name: BUTYL ACETATES

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Marine pollutant: NO

Special precautions for

user:

EmS: F-E; S-D

Air transport

IATA/ICAO

UN number or ID number: UN 1123

UN proper shipping name: BUTYL ACETATES

Transport hazard class(es): 3
Packing group: III

Environmental hazards: No Mark as dangerous for the environment is needed

Special precautions for

user:

None known

Maritime transport in bulk according to IMO instruments

Regulation: IBC-Code

Product name: Butyl acetate (all isomers)

Pollution category: Y Ship Type: 3

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15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

16. Other Information

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Flam. Liq. Flammable liquids

STOT SE Specific target organ toxicity — single exposure Aquatic Acute Hazardous to the aquatic environment - acute

Acute Tox. Acute toxicity

Skin Corr./Irrit. Skin corrosion/irritation

Eye Dam./Irrit. Serious eye damage/eye irritation H226 Flammable liquid and vapour. H336 May cause drowsiness or dizziness.

H402 Harmful to aquatic life.H318 Causes serious eye damage.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H303 + H313 May be harmful if swallowed or in contact with skin.

EUH066 Repeated exposure may cause skin dryness or cracking.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.