

Safety data sheet

Page: 1/14

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

Date / Revised: 29.11.2024

Version: 5.0

Product: **BUTYLDIGLYCOL ACETATE**

(ID no. 30034754/SDS_GEN_00/EN)

Date of print 16.10.2025

1. Identification

Product identifier

BUTYLDIGLYCOL ACETATE

Chemical name: 2-(2-butoxyethoxy)ethyl acetate

CAS Number: 124-17-4

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

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

Date / Revised: 29.11.2024

Version: 5.0

Product: **BUTYLDIGLYCOL ACETATE**

(ID no. 30034754/SDS_GEN_00/EN)

Date of print 16.10.2025

According to UN GHS criteria

| Eye Irrit. 2A
| Aquatic Acute 3

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

Label elementsGlobally Harmonized System (GHS)

Pictogram:



Signal Word:

| Warning

Hazard Statement:

| H319 Causes serious eye irritation.
| H402 Harmful to aquatic life.

Precautionary Statements (Prevention):

| P280 Wear eye protection.
| P273 Avoid release to the environment.
| P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

| P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
| P337 + P313 If eye irritation persists: Get medical attention.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Other hazardsAccording 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.

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

Date / Revised: 29.11.2024

Version: 5.0

Product: **BUTYLDIGLYCOL ACETATE**

(ID no. 30034754/SDS_GEN_00/EN)

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3. Composition/Information on Ingredients

Substances

Chemical nature

2-(2-Butoxyethoxy)ethyl acetate

CAS Number: 124-17-4

EC-Number: 204-685-9

Hazardous ingredients (GHS)

According to UN GHS criteria

2-(2-Butoxyethoxy)ethyl acetate

Content (W/W): $\geq 98,5\%$ - $\leq 98,5\%$

CAS Number: 124-17-4

EC-Number: 204-685-9

Eye Irrit. 2A

Aquatic Acute 3

H319, H402

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

Mixtures

Not applicable

4. First-Aid Measures

Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

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.

On ingestion:

Rinse mouth and then drink 200-300 ml of water.

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: (Further) symptoms and / or effects are not known so far

Indication of any immediate medical attention and special treatment needed

Treatment: Symptomatic treatment (decontamination, vital functions).

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

The product is combustible. Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

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

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

Date / Revised: 29.11.2024

Version: 5.0

Product: **BUTYLDIGLYCOL ACETATE**

(ID no. 30034754/SDS_GEN_00/EN)

Date of print 16.10.2025

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. Prevent contact with air/oxygen (formation of peroxide).

Protection against fire and explosion:

Substance/product is non-flammable. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Electrical devices must meet the specified temperature class.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Containers should be stored tightly sealed in a dry 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.

8. Exposure Controls/Personal Protection**Control parameters**Components with occupational exposure limits

124-17-4: 2-(2-Butoxyethoxy)ethyl acetate

Exposure controlsPersonal 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 also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 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.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | | |
|----------------------------|---|------------------------------|
| State of matter: | liquid | |
| Form: | liquid | |
| Colour: | colourless | |
| Odour: | fruity | |
| Odour threshold: | | |
| | not determined | |
| Melting point: | -32 °C | |
| | Literature data. | |
| Boiling point: | 246 °C | |
| | (1.013 hPa) | |
| Flammability: | hardly combustible | (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: | | |
| | For liquids not relevant for classification and labelling. | |
| Flash point: | 116 °C | (ASTM D93, closed cup) |
| Auto-ignition temperature: | 197 °C | (Directive 84/449/EEC, A.15) |
| Thermal decomposition: | No data available. | |
| pH value: | | |
| | No data available. | |
| Viscosity, kinematic: | 3,5 mm ² /s | |
| | (20 °C) | |
| Thixotropy: | not thixotropic | |

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

Date / Revised: 29.11.2024

Version: 5.0

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(ID no. 30034754/SDS_GEN_00/EN)

Date of print 16.10.2025

| | | |
|---|---------------------------------------|----------------------|
| Solubility in water: | Literature data. 65 g/l (20 °C) | |
| Solubility (qualitative) solvent(s): | organic solvents soluble | |
| Partitioning coefficient n-octanol/water (log Kow): | 1,7 (23 °C; pH value: 6,4) | (OECD Guideline 117) |
| Vapour pressure: | approx. 0,005 hPa (20 °C) | (measured) |
| Relative density: | 0,9765 (20 °C) | |
| Density: | 0,9765 g/cm3 (20 °C) | (DIN 51757) |
| Relative vapour density (air): | 7,04 (20 °C) | (calculated) |
| | Heavier than air. | |

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: Based on the chemical structure there is no indication of explosive properties.

Impact sensitivity:

Based on the chemical structure there is no shock-sensitivity.

Oxidizing properties

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

Pyrophoric properties

Self-ignition temperature: Test type: Spontaneous self-ignition at room-temperature.

Based on its structural properties the product is not classified as self-igniting.

Self-heating substances and mixtures

Self heating ability: It is not a substance capable of spontaneous heating.

Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases: Forms no flammable gases in the presence of water.

Corrosion to metals

No corrosive effect on metal.

Other safety characteristics

Miscibility with water:

(20 °C)
partly miscible

pKA:

The substance does not dissociate.,
Study scientifically not justified.

Adsorption/water - soil:

log KOC: 1,0

(calculated)

Surface tension:

57,8 mN/m
(20,1 °C; 1 g/l)

(OECD Guideline 115, OECD
harmonized ring method)

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

Date / Revised: 29.11.2024

Version: 5.0

Product: **BUTYLDIGLYCOL ACETATE**

(ID no. 30034754/SDS_GEN_00/EN)

Date of print 16.10.2025

Molar mass: 204,27 g/mol
SAPT-Temperature:
Evaporation rate: Study scientifically not justified.
Value can be approximated from Henry's Law Constant or vapor pressure.

10. Stability and Reactivity

Reactivity

Corrosion to metals: No corrosive effect on metal.
Formation of flammable gases: Remarks: Forms no flammable gases in the 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

No special precautions other than good housekeeping of chemicals.

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 after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data:

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

Date / Revised: 29.11.2024

Version: 5.0

Product: **BUTYLDIGLYCOL ACETATE**

(ID no. 30034754/SDS_GEN_00/EN)

Date of print 16.10.2025

LD50 rat (oral): 11.920 mg/kg (similar to OECD guideline 401)

LC50 rat (by inhalation): > 3 mg/l 2 h (IHT)

No mortality was observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The vapour was tested.

LD50 rabbit (dermal): 5.400 - 5.700 mg/kg (OECD Guideline 402)

Irritation

Assessment of irritating effects:

Not irritating to the skin. Eye contact causes irritation.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (similar to OECD guideline 404)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Serious eye damage/irritation In vitro assay: Irritant. (OECD Guideline 492B)

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Buehler test guinea pig: Non-sensitizing. (Guideline 92/69/EEC, B.6)

Germ cell mutagenicity

Assessment of mutagenicity:

No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Carcinogenicity

Assessment of carcinogenicity:

No data available.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

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

Assessment of repeated dose toxicity:

No substance-specific organotoxicity was observed after repeated administration to animals.

Prolonged or repeated contact may cause mild skin irritation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aspiration hazard

No aspiration hazard expected.

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) 50 - 70 mg/l, *Brachydanio rerio* (OECD Guideline 203, static)

The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates:

EC50 (48 h) 120 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

The details of the toxic effect relate to the nominal concentration.

Aquatic plants:

EC50 (72 h) 1.570 mg/l (growth rate), *Pseudokirchneriella subcapitata* (ISO 8692, static)

Nominal 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:

EC20 (30 min) > 1.000 mg/l, activated sludge, industrial (DIN EN ISO 8192, aerobic)

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

EC10 (7 d) 10,84 mg/l, *Ceriodaphnia dubia* (Daphnia test chronic, semistatic)

Nominal concentration.

Assessment of terrestrial toxicity:

No data available.

Soil living organisms:

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

Date / Revised: 29.11.2024

Version: 5.0

Product: **BUTYLDIGLYCOL ACETATE**

(ID no. 30034754/SDS_GEN_00/EN)

Date of print 16.10.2025

No data available.

Terrestrial plants:

No data available.

Other terrestrial non-mammals:

No data available.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Readily biodegradable (according to OECD criteria).

Elimination information:

100 % CO₂ formation relative to the theoretical value (20 d) (OECD 301B; ISO 9439; 92/69/EWG, C.4-C) (aerobic, activated sludge)

Assessment of stability in water:

No data available.

Study scientifically not justified.

Information on Stability in Water (Hydrolysis):

No data available.

Bioaccumulative potential

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will not 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

Other ecotoxicological advice:

Do not release untreated into natural waters.

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

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user: None known

RID

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user: None known

Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

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

Date / Revised: 29.11.2024

Version: 5.0

Product: **BUTYLDIGLYCOL ACETATE**

(ID no. 30034754/SDS_GEN_00/EN)

Date of print 16.10.2025

Environmental hazards: Not applicable
Special precautions for user: None known

Transport in inland waterway vessel
Not evaluated

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: None known

Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

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:

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

Date / Revised: 29.11.2024

Version: 5.0

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(ID no. 30034754/SDS_GEN_00/EN)

Date of print 16.10.2025

| | |
|---------------|--|
| Eye Irrit. | Eye irritation |
| Aquatic Acute | Hazardous to the aquatic environment - acute |
| H319 | Causes serious eye irritation. |
| H402 | Harmful to aquatic life. |

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.

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