Chemical Safety Data Sheet MSDS / SDS

2-(2-Butoxyethoxy)ethyl acetate

Revision Date: 2025-06-21 Revision Number: 1

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

Product identifier

Product name : 2-(2-Butoxyethoxy)ethyl acetate

CBnumber : CB6308191

CAS : 124-17-4

EINECS Number : 204-685-9

Synonyms : Diethylene Glycol Monobutyl Ether Acetate,2-(2-Butoxyethoxy)ethyl Acetate

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

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.

Uses advised against : none

Company Identification

Company : Chemicalbook

Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing

Telephone : 010-86108875

SECTION 2: Hazards identification

GHS Label elements, including precautionary statements

Symbol(GHS)

❖

Signal word Warning

Precautionary statements

P337+P313 IF eye irritation persists: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continuerinsing.

P264 Wash skin thouroughly after handling.

P264 Wash hands thoroughly after handling.

Hazard statements

H320 Causes eye irritation

H319 Causes serious eye irritation

1

Substance

Product name : 2-(2-Butoxyethoxy)ethyl acetate

Synonyms : Diethylene Glycol Monobutyl Ether Acetate, 2-(2-Butoxyethoxy)ethyl Acetate

CAS : 124-17-4
EC number : 204-685-9
MF : C10H20O4
MW : 204.26

SECTION 4: First aid measures

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides

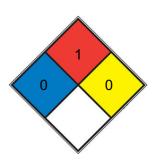
Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

NFPA 704



Poses no health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible

HEALTH 0

materials

Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion

1 can occur. Includes some finely divided suspended solids that do not require heating before ignition can occur. Flash point

REACT 0 Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, N2)

SPEC.

HAZ.

FIRE

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

at or above 93.3 °C (200 °F). (e.g. mineral oil, ammonia)

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Light sensitive. Heat sensitive.

Specific end use(s)

SECTION 8: Exposure controls/personal protection

control parameter

Hazard composition and occupational exposure limits

Does not contain substances with occupational exposure limits.

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm Break through time: 480 min Material tested:Camatril? (KCL 730 / Aldrich Z677442, Size M)

Splash contact Material: Nitrile rubber

Minimum layer thickness: 0,2 mm Break through time: 40 min Material tested:Dermatril? P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

Information on basic physicochemical properties

Odour fruity Odour Threshold No data available pH 3-4 (50g/l, H2O, 20°C) Melting point/freezing point Melting point/range: -31,99 °C at 1.013 hPa Initial boiling point and boiling range 245 °C - lit. Flash point 102 °C - closed cup Evaporation rate No data available Upper/lower flammability or explosive Upper explosion limit: 10,7 %(V) Lower explosion limit: 0,76 %(V) limits Vapour pressure ca.0,005 hPa at 20 °C Vapour density No data available Relative density 0,978 g/cm3 at 25 °C Water solubility 65 g/l at 20 °C - soluble Partition coefficient: n-octanol/water log Pow: 1,7 at 23 °C Autoignition temperature 265 °C at 1.013 hPa Decomposition temperature No data available Viscosity 3,51 mm2/s at 20 °C - Explosive properties Not data available Oxidizing properties Not data available	Appearance	light yellow clear, liquid
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Oxidizing properties No data available	Explosive properties	Not explosiveln use may form flammable/explosive vapour-air mixture.
	Oxidizing properties	No data available

Other safety information

No data available

SECTION 10: Stability and reactivity

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

Heat Light.

Incompatible materials

Strong oxidizing agents, Strong bases

Hazardous decomposition products

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male - 11.920 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - 4 h - 72.500 mg/m3

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Other. Lungs, Thorax, or Respiration: Dyspnea. Lungs, Thorax, or Respiration: Other changes.

LD50 Dermal - Rabbit - 14.500 mg/kg

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 24 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation - 18 - 24 h

Respiratory or skin sensitisation

- Guinea pig

Result: Does not cause skin sensitisation. (Buehler Test)

Germ cell mutagenicity

Ames test

Salmonella typhimurium Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Toxicity

LD50 orally in Rabbit: 6500 mg/kg LD50 dermal Rabbit 5640 mg/kg

SECTION 12: Ecological information

Toxicity

Toxicity to fish

static test LC50 - Pimephales promelas (fathead minnow) - 77 mg/l

- 96 h

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - 664 mg/l - 48 h

Persistence and degradability

Biodegradability aerobic - Exposure time 20 d

Result: 73 % - Readily biodegradable. (OECD Test Guideline 301D)

Bioaccumulative potential

No bioaccumulation is to be expected (log Pow <= 4).

Mobility in soil

No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Toxics Screening Level

The Initial Threshold Screening Level (ITSL) for Diethylene Glycol Monobutyl Ether Acetate (DGBEA) (CAS No. 124-17-4) is 1 µg/m3 with annual averaging time.

Other adverse effects

Harmful to aquatic life. No data available

SECTION 13: Disposal considerations

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

SECTION 14: Transport information

IATA:

UN number

ADR/RID:IMDG:IATA:ADR/RID:IMDG:IATA:

UN number

ADR/RID:IMDG:IATA:ADR/RID:IMDG:IATA:

UN number

ADR/RID:IMDG:IATA:ADR/RID:IMDG:IATA:

UN number

ADR/RID:IMDG:IATA:ADR/RID:IMDG:IATA:

Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

ADR/RID: 2811 IMDG: 2811 IATA: 2811

ADR/RID: - IMDG: - IATA: -ADR/RID: - IMDG: - IATA: -

ADR/RID: 2321 IMDG: 2321 IATA: 2321 ADR/RID: 1224 IMDG: 1224 IATA: 1224 ADR/RID: 2574 IMDG: 2574 IATA: 2574

ADR/RID: - IMDG: - IATA: -ADR/RID: 3 IMDG: 3 IATA: 3

ADR/RID: 1870 IMDG: 1870 IATA: 1870 ADR/RID: 1439 IMDG: 1439 IATA: 1439

UN proper shipping name

ADR/RID: AMMONIUM DICHROMATE IMDG: AMMONIUM DICHROMATE IATA: Ammonium dichromate

ADR/RID: POTASSIUM BOROHYDRIDE IMDG: POTASSIUM BOROHYDRIDE IATA: Potassium borohydride Passenger Aircraft: Not permitted

for transport

ADR/RID: II IMDG: II IATA: II ADR/RID: - IMDG: - IATA: -

 ${\tt ADR/RID: TRICRESYL\ PHOSPHATE\ IMDG: TRICRESYL\ PHOSPHATE\ IATA: Tricresyl\ phosphate}$

ADR/RID: KETONES, LIQUID, N.O.S. (Hexan-3-one) IMDG: KETONES, LIQUID, N.O.S. (Hexan-3-one) IATA: Ketones, liquid, n.o.s. (Hexan-3-one)

one)

 $ADR/RID: TRICHLOROBENZENES, LIQUID \ IMDG: TRICHLOROBENZENES, LIQUID \ IATA: Trichlorobenzenes, liquid \ I$

ADR/RID: - IMDG: - IATA: -

ADR/RID: - IMDG: - IATA: -

ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (ACECLOFENAC) IMDG: TOXIC SOLID, ORGANIC, N.O.S. (ACECLOFENAC) IATA: Toxic solid,

organic, n.o.s. (ACECLOFENAC)

ADR/RID: - IMDG: - IATA: -

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no ADR/RID: no IMDG Marine pollutant: no IATA: no

ADR/RID: 3 IMDG: 3 IATA: 3
ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

ADR/RID: no IMDG Marine pollutant: no IATA: no ADR/RID: no IMDG Marine pollutant: no IATA: no

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

ADR/RID: no IMDG Marine pollutant: no IATA: no ADR/RID: yes IMDG Marine pollutant: yes IATA: no

ADR/RID: 4.3 IMDG: 4.3 IATA: 4.3 ADR/RID: 5.1 IMDG: 5.1 IATA: 5.1

Special precautions for user

No data available

ADR/RID: III IMDG: III IATA: III

No data available

No data available

ADR/RID: II IMDG: II IATA: II ADR/RID: I IMDG: I IATA: I

No data available
No data available
No data available

ADR/RID: II IMDG: II IATA: II

ADR/RID: III IMDG: III IATA: III

Environmental hazards

ADR/RID: no IMDG Marine pollutant: yes IATA: no ADR/RID: yes IMDG Marine pollutant: yes IATA: no ADR/RID: no IMDG Marine pollutant: no IATA: no ADR/RID: no IMDG Marine pollutant: no IATA: no ADR/RID: yes IMDG Marine pollutant: yes IATA: no

Special precautions for user

No data available

SECTION 15: Regulatory information

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

Regulations on the Safety Management of Hazardous Chemicals

China Catalog of Hazardous chemicals 2015:Not Listed. website: https://www.mem.gov.cn/

Measures for Environmental Management of New Chemical Substances

Korea Existing Chemicals List (KECL):Listed. website: http://ncis.nier.go.kr

United States Toxic Substances Control Act (TSCA) Inventory:Listed. website: https://www.epa.gov/

European Inventory of Existing Commercial Chemical Substances (EINECS):Listed. website: https://echa.europa.eu/

Vietnam National Chemical Inventory:Listed. website: https://chemicaldata.gov.vn/

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC):Listed. website: https://www.mee.gov.cn/

EC Inventory:Listed.

New Zealand Inventory of Chemicals (NZIoC):Listed. website: https://www.epa.govt.nz/

Philippines Inventory of Chemicals and Chemical Substances (PICCS):Listed. website: https://emb.gov.ph/

SECTION 16: Other information

Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

References

- [1] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- [2] ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- [3] ECHA European Chemicals Agency, website: https://echa.europa.eu/
- [4] eChemPortal The Global Portal to Information on Chemical Substances by OECD, website:

http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

- [5] ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- [6] Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- [7] HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- [8] IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- [9] IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- 【10】 Sigma-Aldrich, website: https://www.sigmaaldrich.com/

Other Information

See ICSC 0788. Check for peroxides prior to distillation; eliminate if found.

Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.