

* **Butyldiglycol acetate**

Date revised: 30.12.2015

1000139

Version: 6 / WORLD

Master No. M-102

Print date: 23.05.16

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

1.1. Product identifier

Trade name

Butyldiglycol acetate
REACH-Registration no. 01-2119475110-51-XXXX

Use of the substance/mixture

Solvents

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

Identified Uses

At the moment we have no information available for the identified uses. In the presence of these data will be included in the safety data sheet.

Uses advised against

There are no uses have been identified, advised against.

1.3. Details of the supplier of the safety data sheet

Address

Vivochem B.V.
Darwin 5
7609 RL Almelo
Telephone no. +31 546 577774
Fax no. +31 546 577701
Information provided Dept. Quality
by / telephone
E-mail address kwaliteit@vivochem.nl

1.4. Emergency telephone number

National poisoning information center (NVIC) +31 (0) 30 274 8888
Only for the purpose of informing medical personnel in cases of accidental intoxications.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with EC directives.

2.2. Label elements

The product does not require a hazard warning label in accordance with EC directives/ GefStoffV (German regulations on dangerous substances).

2.3. Other hazards

No special hazards have to be mentioned.

PBT and vPvB

You find the results of PBT and vPvB assessment in section 12.

SECTION 3: Composition/information on ingredients

3.1. Substances

Further ingredients

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2-(2-Ethoxyethoxy)ethyl acetate

CAS No. 124-17-4

Registration no. 01-2119475110-51-XXXX

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

If the patient is likely to become unconscious, place and transport in stable sideways position. Remove soiled or soaked clothing immediately, do not allow to dry.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse out mouth and give plenty of water to drink. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Extinguishing measures to suit surroundings, Water mist, Water spray jet, Dry chemical extinguisher, Carbon dioxide, Foam

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fires, hazardous combustion gases are formed; Carbon monoxide (CO); Carbon dioxide (CO₂); Violent vapour formation under influence of water.

5.3. Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Keep unprotected persons away. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Keep away sources of ignition.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

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Take up with absorbent material (eg sand, kieselguhr, universal binder). Pump off large amounts. Prevent spread over a wide area (by containment with sand or earth). When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Observe the usual precautions for handling chemicals. Provide good ventilation of working area (local exhaust ventilation if necessary).

Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Keep separated from food-stuffs and feed-stocks. At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Contact with hot fibrous insulation may reduce the auto-ignition temperature. Ignitable mixtures can form in the empty container. Welding prohibition

7.2. Conditions for safe storage, including any incompatibilities

Use steel or stainless steel containers. Do not use aluminium containers. Do not use zinc containers. Do not use containers, lines etc. made of copper or copper alloys.

Do not store together with foodstuffs. Do not store together with: Oxidising agents
storage category TRGS 510 10 Combustible liquid
Keep container tightly closed and dry in a cool, well-ventilated place.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Derived No/Minimal Effect Levels (DNEL/DMEL)****2-(2-Ethoxyethoxy)ethyl acetate**

DNEL				
Conditions	Worker	Long term	dermal	Systemic effects
Concentration	24	mg/kg		
DNEL				
Conditions	Worker	Long term	inhalative	Systemic effects
Concentration	85	mg/m ³		
DNEL				
Conditions	Consumer	Long term	dermal	Systemic effects
Concentration	12	mg/kg		
DNEL				
Conditions	Consumer	Long term	inhalative	Systemic effects
Concentration	43	mg/m ³		
DNEL				
Conditions	Consumer	Long term	oral	Systemic effects
Concentration	1,58	mg/kg		

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Predicted No Effect Concentration (PNEC)**2-(2-Ethoxyethoxy)ethyl acetate**

Type	Freshwater	
Concentration	0,108	mg/kg
Type	Saltwater	
Concentration	0,0108	mg/l
Type	periodic release	
Concentration	0,6	mg/l
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l
Type	Freshwater sediment	
Concentration	0,8	mg/kg TG
Type	Marine sediment	
Concentration	0,08	mg/kg TG
Type	Soil	
Concentration	0,29	mg/kg TG

8.2. Exposure controls**Respiratory protection**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Short term: filter apparatus, Filter A/P2

Hand protection

Appropriate Material	Chloroprene	
Material thickness	>= 0,6	mm
Breakthrough time	>= 60	min

Eye protection

Tightly fitting safety glasses

Body protection

Solvent-resistant protective clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

Form	liquid
Colour	colourless

Odour

mild

Odour threshold

Remarks No data available

pH value

Value	3	to	4
Concentration/H ₂ O	50	g/l	
Temperature	20	°C	

Melting point/freezing point

Value	-32,2	°C
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Initial boiling point and boiling range

Value 240 to 250 °C

Flash point

Value 108 °C

Evaporation rateValue 0,01
Source Literature value**Flammability (solid, gas)**

No data available

Upper/lower flammability or explosive limitsLower explosion limit 0,76 %(V)
Upper explosion limit 10,7 %(V)**Vapour pressure**Value 0,05 hPa
Temperature 20 °C**Vapour density**Value 7
Source Literature value**Relative density**Value 0,98 g/cm³
Temperature 20 °C**Solubility(ies)**Medium Water
Value 65 g/l
Temperature 20 °C**Partition coefficient: n-octanol/water**log Pow 1,7
The possibility of bioaccumulation is slight.**Auto-ignition temperature**

Value 290 °C

Decomposition temperature

Remarks No decomposition if used as prescribed.

Viscosity**dynamic**Value 3,5 mPa.s
Temperature 20 °C
Source Literature value**kinematic**Value 3,5 mm²/s
Source Literature value**Explosive properties**

Remarks No data available

Oxidising properties

Remarks No data available

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

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10.1. Reactivity

Under normal conditions of storage and use, hazardous reactions will not occur.

10.2. Chemical stability

Under normal conditions of storage and use is the product stable.

10.3. Possibility of hazardous reactions

Polymerization does not occur.

10.4. Conditions to avoid

To avoid thermal decomposition do not overheat. Because of the high vapour pressure, containers are liable to burst if temperature rises.

10.5. Incompatible materials

Reactions with acids, alkalies and oxidizing agents.

10.6. Hazardous decomposition products

Flammable gases/vapours

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

There is no data available on the product apart from the information given in this subsection.

Acute oral toxicity (Components)**2-(2-Ethoxyethoxy)ethyl acetate**

Species	Human		
LDLo	50		mg/kg
Species	rat		
LD50	11920		mg/kg
Species	guinea pig		
LD50	2340		mg/kg

Acute dermal toxicity (Components)**2-(2-Ethoxyethoxy)ethyl acetate**

Species	rabbit		
LD50	5400		mg/kg

Acute inhalative toxicity (Components)**2-(2-Ethoxyethoxy)ethyl acetate**

Species	rat		
LC50	> 400		ppm(V)
Duration of exposure	4	h	
vapour			

Skin corrosion/irritation**2-(2-Ethoxyethoxy)ethyl acetate**

evaluation slight irritant effect - does not require labelling
Frequent persistent contact with the skin can cause skin irritation.

Serious eye damage/irritation**2-(2-Ethoxyethoxy)ethyl acetate**

evaluation slight irritant effect - does not require labelling

Sensitization (Components)**2-(2-Ethoxyethoxy)ethyl acetate**

evaluation non-sensitizing

Mutagenicity (Components)

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2-(2-Ethoxyethoxy)ethyl acetate

No mutagenicity according to various in vitro tests.

The product has not been tested. The information is derived from products of similar composition.

Carcinogenicity (Components)**2-(2-Ethoxyethoxy)ethyl acetate**

Indications of possible carcinogenic effects are not available.

The product has not been tested. The information is derived from products of similar composition.

Reproduction toxicity (Components)**2-(2-Ethoxyethoxy)ethyl acetate**

No indications of reproduction toxicity are available.

The product has not been tested. The information is derived from products of similar composition.

Specific Target Organ Toxicity (STOT)**Single exposure**

No data available

Repeated exposure

No data available

Aspiration hazard

No information available.

SECTION 12: Ecological information**12.1. Toxicity**

There is no data available on the product apart from the information given in this subsection. Harmful to aquatic life.

Fish toxicity (Components)**2-(2-Ethoxyethoxy)ethyl acetate**

Species	zebra fish (<i>Brachydanio rerio</i>)			
LC50	> 50	to	70	mg/l
Duration of exposure	96	h		
Remarks	Static system			

Daphnia toxicity (Components)**2-(2-Ethoxyethoxy)ethyl acetate**

Species	Daphnia magna			
LC50	664			mg/l
Duration of exposure	48	h		
Remarks	Static system			

Algae toxicity (Components)**2-(2-Ethoxyethoxy)ethyl acetate**

Species	Pseudokirchneriella subcapitata			
EC50	1570			mg/l
Duration of exposure	72	h		
Remarks	Static system			
Remarks	The product has not been tested. The information is derived from products of similar composition.			
Remarks	Inhibition of the growth rate			

12.2. Persistence and degradability**Biodegradability (Components)****2-(2-Ethoxyethoxy)ethyl acetate**

Value	100		%
Duration of test	20	d	

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evaluation
MethodReadily biodegradable (according to OECD criteria)
OECD 301 B**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water**

log Pow 1,7

The possibility of bioaccumulation is slight.

12.4. Mobility in soil

Highly mobile in soils

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential**

The Substance do not meets PBT-criterions. The Substance do not meets vPvB-criterions.

12.6. Other adverse effects**Behaviour in environment compartments**

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information**Land transport ADR/RID**

Non-dangerous goods

14.1. UN number -

14.2. UN proper shipping name -

14.3. Transport hazard class(es) -

14.4. Packing group -

14.5. Environmental hazards -

14.6. Special precautions for user No information available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code No information available.

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

14.1. UN number -

14.2. UN proper shipping name -

14.3. Transport hazard class(es) -

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- 14.4. Packing group -
14.5. Environmental hazards -
- 14.6. Special precautions for user No information available.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code No information available.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

- 14.1. UN number -
14.2. UN proper shipping name -
14.3. Transport hazard class(es) -
14.4. Packing group -
- 14.6. Special precautions for user No information available.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code No information available.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****SVHC**

The product does not contain substances of very high concern (SVHC).

TA-Luft

Section 5.2.5: Organic Substances

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information**Department issuing safety data sheet**

Department product safety

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.