

\* **Butylglycolacetaat**

Date revised: 14.04.2016

# 1006840

Version: 7 / WORLD

Master No. M-111

Print date: 27.01.17

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

### **1.1. Product identifier**

#### **Trade name**

Butylglycolacetaat

REACH-Registration no. 01-2119475112-47-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**

#### **Classification (Regulation (EC) No. 1272/2008)**

Acute Tox. 4 H302

Acute Tox. 4 H312

Acute Tox. 4 H332

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

#### **Hazard pictograms**



#### **Signal word**

Warning

#### **Hazard statements \*\*\***

H312

Harmful in contact with skin.

\* **Butylglycolacetaat**

Date revised: 14.04.2016

# 1006840

Version: 7 / WORLD

Master No. M-111

Print date: 27.01.17

H302 Harmful if swallowed.  
H332 Harmful if inhaled.

**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264.1 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P312 Call a POISON CENTER or doctor if you feel unwell.  
P501.9 Dispose of contents/container as problematic waste.

**2.3. Other hazards****PBT and vPvB**

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

**SECTION 3: Composition/information on ingredients****3.1. Substances****Hazardous ingredients****2-Butoxyethyl acetate**

CAS No.	112-07-2			
EINECS no.	203-933-3			
REACH-Registration no.	01-2119475112-47-XXXX			
Concentration		>=	98	%

Acute Tox. 4	H302
Acute Tox. 4	H312
Acute Tox. 4	H332

Complete text of R/H-phrases in Chapter 16.

**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. Poisonous symptoms can first be observed after several hours, therefore medical observation for at least 48 hours is necessary.

**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. Do not induce vomiting. Take medical treatment.

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

The following symptoms may occur: Shortness of breath, Headache, Dizziness, Disorientation, Excitement, Vomiting, CNS depression, Tiredness

Repeated and prolonged skin contact may lead to defatting and irritation of the skin. Risk of pneumonia

\* **Butylglycolacetaat**

Date revised: 14.04.2016

# 1006840

Version: 7 / WORLD

Master No. M-111

Print date: 27.01.17

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

Keep under medical supervision for at least 48 hours.

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

Carbon dioxide, Dry powder, Water spray jet, Alcohol-resistant foam

**Non suitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

**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**

Keep away sources of ignition. Keep unprotected persons away. Use personal protective clothing.

**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**

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Ensure adequate ventilation. 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). Avoid formation of aerosols. Do not discharge into surface waters/groundwater.

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. Do not inhale gases/vapours/aerosols.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Earthing necessary during loading operations. Use only explosion-proof equipment. The product vapours are heavier than air. Vapours can form an explosive mixture with air.

**7.2. Conditions for safe storage, including any incompatibilities**

Temperature class T2

Keep container in a cool, well-ventilated place. Do not use containers, lines etc. made of copper or copper alloys.

Do not store together with: Oxidising agents, Alkalis

\* **Butylglycolacetaat**

Date revised: 14.04.2016

# 1006840

Version: 7 / WORLD

Master No. M-111

Print date: 27.01.17

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-Butoxyethyl acetate**

DNEL

Conditions	Worker	Acute	dermal	Acute effects
Concentration	102	mg/kg		

DNEL

Conditions	Worker	Acute	inhalative	Acute effects
Concentration	775	mg/m <sup>3</sup>		

DNEL

Conditions	Worker	Acute	inhalative	Local effects
Concentration	333	mg/m <sup>3</sup>		

DNEL

Conditions	Worker	Long term	dermal	Chronic effects
Concentration	102	mg/kg/d		

DNEL

Conditions	Worker	Long term	inhalative	Chronic effects
Concentration	133	mg/m <sup>3</sup>		

DNEL

Conditions	General Population	Acute	dermal	Systemic effects
Concentration	27	mg/kg/d		

DNEL

Conditions	General Population	Acute	inhalative	Systemic effects
Concentration	499	mg/m <sup>3</sup>		

DNEL

Conditions	General Population	Acute	oral	Systemic effects
Concentration	18	mg/kg/d		

DNEL

Conditions	General Population	Acute	inhalative	Local effects
Concentration	166	mg/m <sup>3</sup>		

DNEL

Conditions	General Population	Long term	dermal	Systemic effects
Concentration	36	mg/kg/d		

\* **Butylglycolacetaat**

Date revised: 14.04.2016

# 1006840

Version: 7 / WORLD

Master No. M-111

Print date: 27.01.17

DNEL Conditions	General Population	Long term	inhalative	Systemic effects
Concentration	67	mg/m <sup>3</sup>		
DNEL Conditions	General Population	Long term	oral	Systemic effects
Concentration	4,3	mg/kg/d		

**Predicted No Effect Concentration (PNEC)****2-Butoxyethyl acetate**

Type of value	PNEC		
Type	Freshwater		
Concentration	0,304	mg/l	
Type of value	PNEC		
Type	Saltwater		
Concentration	0,0304	mg/l	
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	2,03	mg/kg TG	
Type of value	PNEC		
Type	Marine sediment		
Concentration	0,203	mg/kg TG	
Type of value	PNEC		
Type	Soil		
Concentration	0,68	mg/kg TG	
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	90	mg/l	

**8.2. Exposure controls****Respiratory protection in accordance with DIN EN 136 / DIN EN 140 / DIN EN 143 / DIN EN 149**

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Short term: filter apparatus, Filter A

**Hand protection in accordance with DIN EN 374**

Appropriate Material	Butyl rubber
Material thickness	>= 0,4 mm
Breakthrough time	>= 480 min

**Eye protection in accordance with DIN EN 166**

Tightly fitting safety glasses

**Body protection in accordance with DIN EN 465**

Clothing as usual in the chemical industry.

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

\* **Butylglycolacetaat**

Date revised: 14.04.2016

# 1006840

Version: 7 / WORLD

Master No. M-111

Print date: 27.01.17

**Appearance**

Form	liquid
Colour	colourless

**Odour**

ester-like

**Odour threshold**

Value	0,1	to	0,5	ppm
Value	0,67	to	3,33	mg/m <sup>3</sup>

**pH value**

Value	4		
Concentration/H <sub>2</sub> O	1	%	
Temperature	20	°C	

**Melting point/freezing point**

Value	-64	°C
-------	-----	----

**Initial boiling point and boiling range**

Value	192,3	°C
Pressure	1013	hPa

**Flash point**

Value	78	°C
-------	----	----

**Evaporation rate**

Remarks	No data available
---------	-------------------

**Flammability (solid, gas)**

No data available

**Upper/lower flammability or explosive limits**

Lower explosion limit	1,7	%(V)
Upper explosion limit	8,4	%(V)

**Vapour pressure**

Value	0,5	hPa
Temperature	20	°C
Source	Literature value	

**Vapour density**

Value	5,5
-------	-----

**Relative density**

Value	0,94	g/cm <sup>3</sup>
Temperature	20	°C

**Solubility(ies)**

Value	15	g/l
Temperature	20	°C

**Partition coefficient: n-octanol/water**

log Pow	1,51	
Temperature	20	°C

The possibility of bioaccumulation is slight.

**Auto-ignition temperature**

Value	280	°C
-------	-----	----

**Decomposition temperature**

Remarks	No decomposition if used as prescribed.
---------	---

**Viscosity**

Remarks	No data available
---------	-------------------

**Explosive properties**

\* **Butylglycolacetaat**

Date revised: 14.04.2016

# 1006840

Version: 7 / WORLD

Master No. M-111

Print date: 27.01.17

Remarks This product is not potentially explosive.

**Oxidising properties**

evaluation not oxidizing

**9.2. Other information**

No additional information available.

**SECTION 10: Stability and reactivity****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**

Reactions with oxidizing agents. Vapours can form an explosive mixture with air. Protect from exposure to air/oxygen (peroxide formation).

**10.4. Conditions to avoid**

Protect from heat/overheating. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

**10.5. Incompatible materials**

Reactions with strong oxidising agents. copper, Alkalis, Aluminium

**10.6. Hazardous decomposition products**

Hazardous determin decomposition products: Carbon monoxide and carbon dioxide

**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-Butoxyethyl acetate**

Species	Rats (male/female)		
LD50	1880		mg/kg
Method	OECD TG 401		
Species	rat (male)		
NOAEL	< 69		mg/kg
Duration of exposure	90	d	
Method	OECD 408		
Species	rat (female)		
NOAEL	< 82		mg/kg
Duration of exposure	90	d	
Method	OECD 408		

**Acute dermal toxicity (Components)****2-Butoxyethyl acetate**

Species	rabbit		
LD50	1500		mg/kg
Species	rabbit		
NOAEL	> 150		mg/kg
Duration of exposure	90	d	

**Acute inhalative toxicity (Components)****2-Butoxyethyl acetate**

Species	Rats (male/female)		
---------	--------------------	--	--

\* **Butylglycolacetaat**

Date revised: 14.04.2016

# 1006840

Version: 7 / WORLD

Master No. M-111

Print date: 27.01.17

LC 0	>	400		ppm(V)
Duration of exposure		4	h	
Method		OECD 403		
Species		rat (female)		
NOAEC	<	31		ppm(V)
Duration of exposure		14	Weeks	
Species		rat (male)		
NOAEC		62,5		ppm(V)
Duration of exposure		14	Weeks	
Species		mouse (female)		
NOAEC	<	31		ppm(V)
Duration of exposure		14	Weeks	
Species		mouse (male)		
NOAEC		62,5		ppm(V)
Duration of exposure		14	Weeks	

**Skin corrosion/irritation**

evaluation slight irritant effect - does not require labelling

**Serious eye damage/irritation**

evaluation slight irritant effect - does not require labelling

**Sensitization (Components)****2-Butoxyethyl acetate**

No sensitizing effect known.

**Mutagenicity (Components)****2-Butoxyethyl acetate**

Not considered mutagenic based on several in vitro and in vivo studies.

**Carcinogenicity (Components)****2-Butoxyethyl acetate**

Indications of possible carcinogenic effects are not available.

**Reproduction toxicity (Components)****2-Butoxyethyl acetate**

No indications of reproduction toxicity are available.

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

Route of exposure	oral
Species	Rats (male/female)
LOAEL	94 mg/kg

**Repeated exposure**

Route of exposure	dermal
Species	rabbit
LOAEL	203 mg/kg

**Repeated exposure**

Route of exposure	inhalative
Species	Rats (male/female)
LOAEL	206 mg/kg

**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.



\* **Butylglycolacetaat**

Date revised: 14.04.2016

# 1006840

Version: 7 / WORLD

Master No. M-111

Print date: 27.01.17

**Fish toxicity (Components)****2-Butoxyethyl acetate**

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )	
LC50	28	mg/l
Duration of exposure	96	h
Method	OECD 203	

**Daphnia toxicity (Components)****2-Butoxyethyl acetate**

Species	<i>Crassostrea gigas</i>	
EC50	> 100	mg/l
Duration of exposure	24	h
Remarks	Static system	

Species	<i>Daphnia magna</i>	
EC50	37	mg/l
Duration of exposure	48	h
Method	DIN 38412 T.11	
Remarks	Static system	

Species	<i>Ceriodaphnia Dubia</i>	
EC10	30,4	mg/l
Duration of exposure	7	d
Remarks	Semistatic system	

**Algae toxicity (Components)****2-Butoxyethyl acetate**

Species	<i>Pseudokirchneriella subcapitata</i>	
EC50	1570	mg/l
Duration of exposure	72	h
Method	ISO 8692	
Remarks	Static system	

Species	<i>Pseudokirchneriella subcapitata</i>	
EC0	300	mg/l
Duration of exposure	72	h
Method	ISO 8692	
Remarks	Static system	

**Bacteria toxicity (Components)****2-Butoxyethyl acetate**

Species	<i>Pseudomonas putida</i>	
EC10	720	mg/l
Duration of exposure	17	h
Method	DIN 38412 / Part 8	
Remarks	Static system	

Species	<i>Pseudomonas putida</i>	
EC50	960	mg/l
Duration of exposure	17	h
Method	DIN 38412 / Part 8	
Remarks	Static system	

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

Value	88	%
Duration of test evaluation	28	d
	readily degradable	

\* **Butylglycolacetaat**

Date revised: 14.04.2016

# 1006840

Version: 7 / WORLD

Master No. M-111

Print date: 27.01.17

**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water**

log Pow	1,51	
Temperature	20	°C

The possibility of bioaccumulation is slight.

**12.4. Mobility in soil**

Slightly 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) -

14.4. Packing group -

\* **Butylglycolacetaat**

Date revised: 14.04.2016

# 1006840

Version: 7 / WORLD

Master No. M-111

Print date: 27.01.17

- 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 -
- 14.5. 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.

**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).

**Other regulations, restrictions and prohibition regulations**

Observe employment restrictions for child bearing mothers and nursing mothers.  
Observe employment restrictions for young people.

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

- H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.

**CLP categories listed in Chapter 3**

Acute Tox. 4 Acute toxicity, Category 4

**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.

\* **Butylglycolacetaat**

Date revised: 14.04.2016

# 1006840

Version: 7 / WORLD

Master No. M-111

Print date: 27.01.17