

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : PROLAQ L 500  
Revision date : 13.02.2023  
Print date : 02.03.2023

Version (Revision) : 4.0.1 (4.0.0)

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

### 1.1 Product identifier

PROLAQ L 500

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

#### Relevant identified uses

PC 35 - Washing and cleaning products

### 1.3 Details of the supplier of the safety data sheet

#### Supplier

Bio-Circle Surface Technology GmbH

**Street :** Berensweg 200

**Postal code/City :** 33334 Gütersloh

**Telephone :** +49 5241 9443 0

**Telefax :** +49 5241 9443 44

**Information contact :** labor@bio-circle.de

### 1.4 Emergency telephone number

+49 5241 9443 51 during normal office hours

(Monday to Thursday from 8 am to 4 pm and Friday from 8 am to 3 pm)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Exclamation mark (GHS07)

##### Signal word

Warning

##### Hazard statements

H319 Causes serious eye irritation.

##### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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 advice/attention.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Hazardous ingredients

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2-(2-BUTOXYETHOXY)ETHANOL ; REACH No. : 01-2119475104-44-XXXX ; EC No. : 203-961-6; CAS No. : 112-34-5  
Weight fraction :  $\geq 10 - < 25 \%$   
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319  
Substance with a common (EC) occupational exposure limit value.

DIMETHYL SUCCINATE ; REACH No. : 01-2119486681-29-XXXX ; EC No. : 203-419-9; CAS No. : 106-65-0  
Weight fraction :  $\geq 10 - < 25 \%$   
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

2-BUTOXYETHANOL ; REACH No. : 01-2119475108-36-XXXX ; EC No. : 203-905-0; CAS No. : 111-76-2  
Weight fraction :  $\geq 5 - < 10 \%$   
Classification 1272/2008 [CLP] : Acute Tox. 3 ; H331 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319  
Substance with a common (EC) occupational exposure limit value.  
Specific Conc. Limits : (ATE - oral : 1200 mg/kg) • (ATE - inhalative (vapour) : 3 mg/L)

N-BUTYL ACETATE ; REACH No. : 01-2119485493-29-XXXX ; EC No. : 204-658-1; CAS No. : 123-86-4  
Weight fraction :  $\geq 1 - < 5 \%$   
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336 EUH066

1-METHOXY-2-PROPANOL ; REACH No. : 01-2119457435-35-XXXX ; EC No. : 203-539-1; CAS No. : 107-98-2  
Weight fraction :  $\geq 1 - < 5 \%$   
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336  
Substance with a common (EC) occupational exposure limit value.

#### Further ingredients

DIMETHYL GLUTARATE ; REACH No. : 01-2119900156-49-XXXX ; EC No. : 214-277-2; CAS No. : 1119-40-0  
Weight fraction :  $\geq 30 - < 35 \%$

2-(2-BUTOXYETHOXY)ETHYL ACETATE ; REACH No. : 01-2119475110-51-XXXX ; EC No. : 204-685-9; CAS No. : 124-17-4  
Weight fraction :  $\geq 15 - < 20 \%$

DIMETHYL ADIPATE ; REACH No. : 01-2119911093-50-XXXX ; EC No. : 211-020-6; CAS No. : 627-93-0  
Weight fraction :  $\geq 5 - < 10 \%$

#### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

#### Following inhalation

In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

#### After eye contact

Protect uninjured eye. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### Following ingestion

Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

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

Causes serious eye irritation.

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

None

## SECTION 5: Firefighting measures

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## 5.1 Extinguishing media

### Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>) Sand Nitrogen Extinguishing blanket

### Unsuitable extinguishing media

Full water jet

## 5.2 Special hazards arising from the substance or mixture

### Hazardous combustion products

In case of fire may be liberated: Carbon monoxide , Carbon dioxide (CO<sub>2</sub>)

## 5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

## 5.4 Additional information

Apply foam in abundant quantities since some of it gets destroyed by the product. Do not allow run-off from fire-fighting to enter drains or water courses. The product itself does not burn. Adapt extinguishing measures to suit the environment.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3 Methods and material for containment and cleaning up

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

### 6.4 Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep/Store only in original container. Protect against : Frost .

#### Hints on joint storage

Storage class (TRGS 510) : 10

### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

DIMETHYL GLUTARATE ; CAS No. : 1119-40-0

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 1,2 ppm / 8 mg/m<sup>3</sup>

Peak limitation : 2(l)

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Remark : Y  
Version : 23.06.2022  
2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 10 ppm / 67 mg/m<sup>3</sup>  
Peak limitation : 1,5(I)  
Remark : Y  
Version : 23.06.2022  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 15 ppm / 101,2 mg/m<sup>3</sup>  
Version : 20.06.2019  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 10 ppm / 67,5 mg/m<sup>3</sup>  
Version : 20.06.2019  
2-(2-BUTOXYETHOXY)ETHYL ACETATE ; CAS No. : 124-17-4  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 10 ppm / 67 mg/m<sup>3</sup>  
Peak limitation : 1,5(I)  
Remark : Y  
Version : 23.06.2022  
DIMETHYL SUCCINATE ; CAS No. : 106-65-0  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 1,2 ppm / 8 mg/m<sup>3</sup>  
Peak limitation : 2(I)  
Remark : Y  
Version : 23.06.2022  
DIMETHYL ADIPATE ; CAS No. : 627-93-0  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 1,2 ppm / 8 mg/m<sup>3</sup>  
Peak limitation : 2(I)  
Remark : Y  
Version : 23.06.2022  
2-BUTOXYETHANOL ; CAS No. : 111-76-2  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 10 ppm / 49 mg/m<sup>3</sup>  
Peak limitation : 2(II)  
Remark : H,Y  
Version : 23.06.2022  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 50 ppm / 246 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 20 ppm / 98 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019  
N-BUTYL ACETATE ; CAS No. : 123-86-4  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 62 ppm / 300 mg/m<sup>3</sup>  
Peak limitation : 2(I)  
Remark : Y  
Version : 23.06.2022  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 150 ppm / 723 mg/m<sup>3</sup>

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Version : 20.06.2019  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 50 ppm / 241 mg/m<sup>3</sup>  
Version : 20.06.2019  
1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 100 ppm / 370 mg/m<sup>3</sup>  
Peak limitation : 2(l)  
Remark : Y  
Version : 23.06.2022  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 150 ppm / 568 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 100 ppm / 375 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019

## Biological limit values

2-BUTOXYETHANOL ; CAS No. : 111-76-2  
Limit value type (country of origin) : TRGS 903 ( D )  
Butoxyacetic acid (after hydrolysis) / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts  
Parameter :  
Limit value : 150 mg/g Creatinine  
Version : 25.02.2022  
1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : 1-methoxypropan-2-ol / Urine (U) / End of exposure or end of shift  
Limit value : 15 mg/l  
Version : 25.02.2022

## DNEL-/PNEC-values

### DNEL/DMEL

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 67,5 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 101,2 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 67,5 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 20 mg/kg  
2-BUTOXYETHANOL ; CAS No. : 111-76-2  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 246 mg/m<sup>3</sup>

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Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 98 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 663 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 75 mg/kg  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Short-term  
Limit value : 89 mg/kg

#### N-BUTYL ACETATE ; CAS No. : 123-86-4

Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 480 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 960 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 480 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 960 mg/m<sup>3</sup>

#### 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2

Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 553,5 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 369 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 50,6 mg/kg

#### PNEC

##### 2-BUTOXYETHANOL ; CAS No. : 111-76-2

Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 8,8 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,88 mg/l  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 34,6 mg/kg  
Limit value type : PNEC (Soil)  
Limit value : 2,33 mg/kg

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Limit value type : PNEC (Sewage treatment plant)  
Limit value : 463 mg/l

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection



Wear suitable safety goggles in case of splash.

**Suitable eye protection**  
EN 166.

#### Skin protection

##### Hand protection



**Suitable gloves type** : EN 374.

**Suitable material** : Butyl caoutchouc (butyl rubber) , NBR (Nitrile rubber)

**Breakthrough time** : 480 min.

**Thickness of the glove material** : 0,7 mm

**Remark** : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Respiratory protection



Respiratory protection necessary at: exceeding exposure limit values

##### Suitable respiratory protection apparatus

Combination filtering device  
Type : A

##### Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

#### General information

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. P362+P364 - Take off contaminated clothing and wash it before reuse. P264 - Wash hands thoroughly after handling.

## 8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state** : Liquid

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Colour : colourless

## Odour

characteristic

## Safety characteristics

Melting point/freezing point :	( 1013 hPa )		not determined	
Initial boiling point and boiling range :	( 1013 hPa )	>	100 °C	
Flash point :			61 - 65 °C	DIN EN ISO 13736
Auto-ignition temperature :			not determined	
Flammability :			non-flammable	
Vapour pressure :	( 50 °C )		not determined	
Density :	( 20 °C )		1	g/cm <sup>3</sup>
Water solubility :	( 20 °C )		completely miscible	
pH :	( 20 °C )		not applicable	
Cinematic viscosity :	( 20 °C )	<	30	mm <sup>2</sup> /s
Relative vapour density :	( 20 °C )		not determined	
Maximum VOC content (EC) :		<	20	Weight-%
Maximum VOC content (Switzerland) :			33,8	Weight-%
Taxable VOC content (Switzerland) :			33,8	Weight-%

## 9.2 Other information

Not sustaining combustion. UN Test L.2: Sustained combustibility test

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reactions with strong oxidants are expected. Peroxides can be produced.

### 10.2 Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.  
Decomposition products in case of fire: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Acute oral toxicity

Parameter :	ATEmix
Exposure route :	Oral
Effective dose :	> 2000 mg/kg
Parameter :	LD50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )
Exposure route :	Oral
Species :	Mouse
Effective dose :	5530 mg/kg
Method :	OECD 401



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Parameter : LD50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 14 g/kg  
Parameter : LD50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Oral  
Species : Rabbit  
Effective dose : 7,4 g/kg  
Parameter : LD50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1250 - 1490 mg/kg  
Method : OECD 401

#### Acute dermal toxicity

Parameter : ATEmix  
Exposure route : Dermal  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 2764 mg/kg  
Method : OECD 402  
Parameter : LD50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 841 mg/kg  
Method : OECD 402

#### Acute inhalation toxicity

Parameter : ATEmix  
Exposure route : Inhalation  
Effective dose : > 20 mg/l  
Parameter : LC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 21 mg/l  
Exposure time : 4 h  
Method : OECD 403  
Parameter : LC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 2 - 20 mg/l  
Exposure time : 4 h

#### Corrosion

##### Skin corrosion/irritation

No further relevant information available.

##### Serious eye damage/eye irritation

No further relevant information available.

#### Respiratory or skin sensitisation

##### Skin sensitisation

No further relevant information available.

##### Sensitisation to the respiratory tract

No further relevant information available.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

##### Carcinogenicity

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No further relevant information available.

#### Germ cell mutagenicity

No further relevant information available.

#### Reproductive toxicity

No further relevant information available.

#### STOT-single exposure

No further relevant information available.

#### STOT-repeated exposure

No further relevant information available.

#### Aspiration hazard

No further relevant information available.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

#### Other adverse effects

Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

#### Additional information

Preparation not tested. The statement is derived from the properties of the single components.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter :	LC50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )
Species :	Lepomis macrochirus (Bluegill)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	1300 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 ( DIMETHYL SUCCINATE ; CAS No. : 106-65-0 )
Species :	Danio rerio (zebrafish)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	50 - 100 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	18 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	1474 mg/l
Exposure time :	96 h
Method :	OECD 203

##### Chronic (long-term) fish toxicity

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Parameter : NOEC ( DIMETHYL SUCCINATE ; CAS No. : 106-65-0 )  
Species : Fish  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 13,9 mg/l  
Parameter : NOEC ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Danio rerio (zebrafish)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : > 100 mg/l  
Exposure time : 21 D  
Method : OECD 204

#### Acute (short-term) toxicity to crustacea

Parameter : EC50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( DIMETHYL SUCCINATE ; CAS No. : 106-65-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : 1550 mg/l  
Exposure time : 48 h  
Method : DIN 38412 / part 11

#### Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC ( DIMETHYL SUCCINATE ; CAS No. : 106-65-0 )  
Species : Daphnia  
Evaluation parameter : Chronic (long-term) toxicity to aquatic invertebrate  
Effective dose : 358,6 mg/l  
Parameter : NOEC ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 23 mg/l  
Exposure time : 21 D  
Method : OECD 211  
Parameter : NOEC ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 200 mg/l  
Exposure time : 72 h  
Parameter : NOEC ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) toxicity to aquatic invertebrate  
Effective dose : 100 mg/l  
Exposure time : 21 D  
Method : OECD 211

#### Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : > 100 mg/l

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Exposure time : 48 h  
Method : OECD 201  
Parameter : EC50 ( DIMETHYL SUCCINATE ; CAS No. : 106-65-0 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Inhibition of growth rate  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : EC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 18 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : EC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Daphnia  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 44 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 34 mg/l  
Exposure time : 21 D  
Method : OECD 211  
Parameter : EC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 674,7 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : 1840 mg/l  
Exposure time : 72 h  
Method : OECD 201

#### Chronic (long-term) toxicity to aquatic algae and cyanobacteria

Parameter : NOEC ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Chronic (long-term) toxicity to aquatic algae and cyanobacteria  
Effective dose : 286 mg/l  
Exposure time : 72 h  
Method : OECD 201

#### Toxicity to microorganisms

Parameter : EC10 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Species : Toxicity to microorganisms  
Effective dose : > 1995 mg/l  
Exposure time : 30 min  
Parameter : EC50 ( DIMETHYL SUCCINATE ; CAS No. : 106-65-0 )  
Species : Bacteria toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 3 h  
Method : OECD 209

## 12.2 Persistence and degradability

### Biodegradation

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Parameter :	BOD (% of COD) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	95 %
Test duration :	28 D
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301C
Parameter :	CO2 formation (% of the theoretical value) ( DIMETHYL SUCCINATE ; CAS No. : 106-65-0 )
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	74,1 %
Test duration :	28 D
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301B
Parameter :	Biodegradation ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	83 %
Test duration :	20 D
Evaluation :	Readily biodegradable (according to OECD criteria).
Parameter :	Biodegradation ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )
Inoculum :	Biodegradation
Degradation rate :	88 %
Test duration :	20 D

## 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Directive 2008/98/EC (Waste Framework Directive)

##### Before intended use

##### Waste codes/waste designations according to EWC/AVV

08 01 17 \* - Waste from paint or varnish removal containing organic solvents or other dangerous substances.

##### Other disposal recommendations

Dispose of waste according to applicable legislation. Dispose of contents/container to an appropriate recycling or disposal facility. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

### 13.2 Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## SECTION 14: Transport information

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## 14.1 UN number

No dangerous good in sense of these transport regulations.

## 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

## 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

## 14.4 Packing group

No dangerous good in sense of these transport regulations.

## 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

## 14.6 Special precautions for user

None

## 14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

## SECTION 15: Regulatory information

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

#### EU legislation

##### Authorisations and/or restrictions on use

##### Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 30, 40, 55, 75

##### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

#### National regulations

##### Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : 5 - 10 %

##### Water hazard class

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

### 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

09. Information on basic physical and chemical properties · 11. Endocrine disrupting properties · 12. Endocrine disrupting properties

### 16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf der Straße)

AOX: adsorbierbare organisch gebundene Halogene

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

CAS: Chemical Abstracts Service (Unterabteilung der American Chemical Society)

CLP: Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (Classification Labelling and Packaging)

EAK / AVV: europäischer Abfallartenkatalog / Abfallverzeichnis-Verordnung

ECHA: Europäische Chemikalienagentur (European Chemicals Agency)

EINECS: : Altstoffverzeichnis (European Inventory of Existing Commercial Chemical Substances)

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GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien (Globally Harmonized System of Classification and Labelling of Chemicals)

IATA: Internationale Luftverkehrs-Vereinigung (International Air Transport Association)

ICAO: Internationale Zivilluftfahrtorganisation (International Civil Aviation Organization)

IMDG: Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffverkehr (International Maritime Code for Dangerous Goods)

RID: Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Règlement concernant le transport international ferroviaire de marchandises dangereuses)

TRGS: Technische Regel für den Umgang mit Gefahrstoffen

VbF: Verordnung über brennbare Flüssigkeiten

VOC: flüchtige organische Verbindung (volatile organic compound)

VVEA: Verordnung über die Vermeidung und die Entsorgung von Abfällen

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

## 16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank

ECHA: Classification And Labelling Inventory

ECHA: Pre-registered Substances

ECHA: Registered Substances

EC\_Safety Data Sheet of Suppliers

ESIS: European Chemical Substances Information System

GDL: Gefahrstoffdatenbank der Länder

UBA Rigoletto: Wassergefährdende Stoffe

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council

Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

## 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Evaluation :

Eye Irrit. 2 : Calculation method.

## 16.5 Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

## 16.6 Training advice

None

## 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.