

# Safety Data Sheet

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



Trade name : Stripper  
Revision date : 12.11.2020  
Print date : 12.11.2020

Version (Revision) : 5.0.0 (4.0.0)

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

### 1.1 Product identifier

Stripper

### 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 (manufacturer/importer/only representative/downstream user/distributor)

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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

### 2.2 Label elements

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

##### Hazard pictograms



Corrosion (GHS05)

##### Signal word

Danger

##### Hazard components for labelling

ALCOHOLS C10, ETHOXYLATED

QUATERNARY AMMONIA COMPOUNDS

DISODIUM METASILICATE ; CAS No. : 6834-92-0

##### Hazard statements

H318 Causes serious eye damage.

H315 Causes skin irritation.

##### Precautionary statements

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.

P302+P352 IF ON SKIN: Wash with plenty of water/....

P332+P313 If skin irritation occurs: Get medical advice/attention.

### 2.3 Other hazards

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None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

BENZYL ALCOHOL ; REACH No. : 01-2119492630-38-XXXX ; EC No. : 202-859-9; CAS No. : 100-51-6

Weight fraction :  $\geq 10 - < 25$  %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Eye Irrit. 2 ; H319

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.

POTASSIUM CUMENESULFONATE ; REACH No. : 01-2119489427-24-XXXX ; EC No. : 629-764-9; CAS No. : 164524-02-1

Weight fraction :  $\geq 1 - < 5$  %

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

SODIUM CUMENESULPHONATE ; REACH No. : 01-2119489411-37-XXXX ; EC No. : 239-854-6; CAS No. : 15763-76-5

Weight fraction :  $\geq 1 - < 5$  %

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

ISOTRIDECANOL, ETHOXYLATED ( $\geq 2.5$ ) ; REACH No. : (Polymer) ; EC No. : 931-138-8; CAS No. : 9043-30-5

Weight fraction :  $\geq 1 - < 5$  %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Aquatic Chronic 3 ; H412

Specific Conc. Limits : Eye Dam. 1 ; H318: C  $\geq 10,01$  %

C9-C11, ALCOHOLS, ETHOXYLATED (4 EO) ; REACH No. : 01-2119980051-45-XXXX ; EC No. : 614-482-0; CAS No. : 68439-46-3

Weight fraction :  $\geq 1 - < 5$  %

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

ALCOHOLS, ETHOXYLATED, C9-C11 (5.5 EO) ; REACH No. : 01-2119980051-45-XXXX ; EC No. : 614-482-0; CAS No. : 68439-46-3

Weight fraction :  $\geq 1 - < 5$  %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Eye Irrit. 2 ; H319

ALCOHOLS C10, ETHOXYLATED ; REACH No. : Polymer

Weight fraction :  $\geq 1 - < 3$  %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

QUATERNARY AMMONIA COMPOUNDS ; REACH No. : Polymer

Weight fraction :  $\geq 1 - < 3$  %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315

DISODIUM METASILICATE ; REACH No. : 01-2119449811-37-XXXX ; EC No. : 229-912-9; CAS No. : 6834-92-0

Weight fraction :  $\geq 1 - < 3$  %

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 STOT SE 3 ; H335

#### Additional information

Full text of H- and EUH-phrases: 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.

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## 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

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. Protect uninjured eye.

## After 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. Causes skin irritation.

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

None

## SECTION 5: Firefighting measures

### 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

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. Move undamaged containers from immediate hazard area if it can be done safely.

## 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

Keep container tightly closed.

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

Keep/Store only in original container. Protect against Frost

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## Hints on joint storage

Storage class (TRGS 510) : 12

### 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

BENZYL ALCOHOL ; CAS No. : 100-51-6

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 5 ppm / 22 mg/m<sup>3</sup>  
Peak limitation : 2(l)  
Remark : H, Y,11  
Version : 06.11.2020

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(l)  
Remark : Y  
Version : 29.03.2019

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

#### DNEL-/PNEC-values

##### DNEL/DMEL

Limit value type : DNEL worker (systemic) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 90 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 450 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 9,5 mg/kg

Limit value type : DNEL worker (systemic) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Exposure route : Dermal  
Exposure frequency : Short-term  
Limit value : 47 mg/kg

Limit value type : DNEL worker (local) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 67,5 mg/m<sup>3</sup>

Limit value type : DNEL worker (local) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 101,2 mg/m<sup>3</sup>

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Limit value type : DNEL worker (systemic) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 67,5 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 20 mg/kg  
Limit value type : DNEL worker (systemic) ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 53,6 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 53,6 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 7,6 mg/kg  
Limit value type : DNEL worker (systemic) ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 7,6 mg/kg  
Limit value type : DNEL worker (systemic) ( ISOTRIDECANOL, ETHOXYLATED ( >= 2.5 ) ; CAS No. : 9043-30-5 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 294 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( C9-C11, ALCOHOLS, ETHOXYLATED (4 EO) ; CAS No. : 68439-46-3 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 294 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( ALCOHOLS, ETHOXYLATED, C9-C11 (5.5 EO) ; CAS No. : 68439-46-3 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 294 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( ALCOHOLS, ETHOXYLATED, C9-C11 (5.5 EO) ; CAS No. : 68439-46-3 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 2080 mg/kg  
Limit value type : DNEL worker (systemic) ( C9-C11, ALCOHOLS, ETHOXYLATED (4 EO) ; CAS No. : 68439-46-3 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 2080 mg/kg  
Limit value type : DNEL worker (systemic) ( ISOTRIDECANOL, ETHOXYLATED ( >= 2.5 ) ; CAS No. : 9043-30-5 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 2080 mg/kg  
Limit value type : DNEL worker (systemic) ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )

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Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 6,22 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 1,49 mg/kg

## 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



Wear protective gloves in case of longer lasting skin contact.

**Suitable gloves type** : EN 374.

**Suitable material** : NBR (Nitrile rubber)

**Breakthrough time (maximum wearing time)** : 480 min.

**Thickness of the glove material** : 0.4 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 (EN 14387)

Type : A

#### Remark

Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m<sup>3</sup> (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m<sup>3</sup> (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m<sup>3</sup> (1.0 % by vol.)

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. 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

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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

Colour : colourless

#### Odour

characteristic

#### Safety characteristics

Freezing point : < 0 °C

Initial boiling point and boiling range ( 1013 hPa ) : approx. 100 °C

Flash point : not relevant

Auto-ignition temperature : not relevant

Lower explosion limit : not relevant

Upper explosion limit : not relevant

Vapour pressure : ( 50 °C ) not relevant

Density : ( 20 °C ) approx. 1,03 g/cm<sup>3</sup>

pH : approx. 12,5

Flow time : ( 20 °C ) not relevant DIN-cup 4 mm

Maximum VOC content (EC) : 7,5 Wt %

Maximum VOC content (Switzerland) : 17,5 Wt %

### 9.2 Other information

No further relevant information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

### 10.2 Chemical stability

The product 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

Brass Zinc

### 10.6 Hazardous decomposition products

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

### 10.7 Additional information

Slowly corrodes aluminium and zinc under hydrogen evolution.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Acute oral toxicity

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Parameter : ATE ( ALCOHOLS C10, ETHOXYLATED )  
Exposure route : Oral  
Effective dose : 500 mg/kg  
Parameter : LD50 ( QUATERNARY AMMONIA COMPOUNDS )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 300 mg/kg  
Parameter : LD50 ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )  
Exposure route : Oral  
Species : Mouse  
Effective dose : 770 - 820 mg/kg  
Parameter : LD50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( C9-C11, ALCOHOLS, ETHOXYLATED (4 EO) ; CAS No. : 68439-46-3 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 5050 - 5130 mg/kg  
Method : OECD 401  
Parameter : LD50 ( ALCOHOLS, ETHOXYLATED, C9-C11 (5.5 EO) ; CAS No. : 68439-46-3 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 5050 - 5130 mg/kg  
Method : OECD 401  
Parameter : LD50 ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1152 - 1349 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  
Parameter : LD50 ( ISOTRIDECANOL, ETHOXYLATED ( >= 2.5 ) ; CAS No. : 9043-30-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 2000 mg/kg  
Method : OECD 423  
Parameter : LD50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1230 - 1620 mg/kg  
**Acute dermal toxicity**  
Parameter : LD50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 2000 mg/kg  
Parameter : LD50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg



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Parameter : LD50 ( C9-C11, ALKOHOLS, ETHOXYLATED (4 EO) ; CAS No. : 68439-46-3 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/l  
Method : OECD 402  
Parameter : LD50 ( ALCOHOLS, ETHOXYLATED, C9-C11 (5.5 EO) ; CAS No. : 68439-46-3 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Method : OECD 402  
Parameter : LD50 ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 5000 mg/kg  
Parameter : LD50 ( ISOTRIDECANOL, ETHOXYLATED ( >= 2.5) ; CAS No. : 9043-30-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg  
Method : OECD 402  
Parameter : LD50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 2764 mg/kg  
Method : OECD 402

## Acute inhalation toxicity

Parameter : LC50 ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 2,06 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 5 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( C9-C11, ALKOHOLS, ETHOXYLATED (4 EO) ; CAS No. : 68439-46-3 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 1,6 mg/l  
Method : OECD 403  
Parameter : LC50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 4178 mg/m<sup>3</sup>  
Exposure time : 4 h  
Method : OECD 403  
Parameter : LC50 ( ALCOHOLS, ETHOXYLATED, C9-C11 (5.5 EO) ; CAS No. : 68439-46-3 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 1,6 mg/l  
Exposure time : 4 h  
Method : OECD 403  
Parameter : LC50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 1000 ppm

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Exposure time : 8 h

## Corrosion

### Skin corrosion/irritation

No further relevant information available.

### Acid-/Alkali reserve (buffer capacity for mixtures with extreme pH values)

The mixture has a low buffer capacity (Acid/Alkaline reserve).

### 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

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 Toxicokinetics, metabolism and distribution

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

## 11.3 Other adverse effects

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

## 11.4 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 ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	2320 mg/l
Exposure time :	96 h
Parameter :	LC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )

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Species : Cyprinus carpio (Common Carp)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 100 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Species : Cyprinus carpio (Common Carp)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 100 mg/kg  
Exposure time : 96 h  
Parameter : LC50 ( ISOTRIDECANOL, ETHOXYLATED ( >= 2.5 ) ; CAS No. : 9043-30-5 )  
Species : Cyprinus carpio (Common Carp)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 1 - 10 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( C9-C11, ALKOHOLS, ETHOXYLATED (4 EO) ; CAS No. : 68439-46-3 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 5 - 7 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( ALCOHOLS, ETHOXYLATED, C9-C11 (5.5 EO) ; CAS No. : 68439-46-3 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 5 - 7 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Species : Fish  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 460 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC0 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Species : Daphnia  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 360 mg/l  
Exposure time : 48 h

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

Parameter : NOEC ( C9-C11, ALKOHOLS, ETHOXYLATED (4 EO) ; CAS No. : 68439-46-3 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 0,11 - 0,28 mg/l  
Exposure time : 30 D  
Parameter : NOEC ( ALCOHOLS, ETHOXYLATED, C9-C11 (5.5 EO) ; CAS No. : 68439-46-3 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 0,11 - 0,28 mg/l  
Exposure time : 30 D

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

Parameter : EC50 ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 1700 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( C9-C11, ALKOHOLS, ETHOXYLATED (4 EO) ; CAS No. : 68439-46-3 )  
Species : Daphnia magna (Big water flea)

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Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 2,5 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( ALCOHOLS, ETHOXYLATED, C9-C11 (5.5 EO) ; CAS No. : 68439-46-3 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 2,5 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 207 mg/l  
Exposure time : 72 h  
Method : DIN 38412 / part 9  
Parameter : EC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( ISOTRIDEKANOL, ETHOXYLATED ( >= 2.5 ) ; CAS No. : 9043-30-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 1 - 10 mg/l  
Exposure time : 48 h  
Method : OECD 202

**Chronic (long-term) toxicity to crustacea**

Parameter : NOEC ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 51 mg/l  
Exposure time : 21 D  
Method : OECD 211  
Parameter : NOEC ( C9-C11, ALKOHOLS, ETHOXYLATED (4 EO) ; CAS No. : 68439-46-3 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 0,77 - 1,75 mg/l  
Exposure time : 21 D  
Parameter : NOEC ( ALCOHOLS, ETHOXYLATED, C9-C11 (5.5 EO) ; CAS No. : 68439-46-3 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 0,77 - 1,75 mg/l  
Exposure time : 21 D  
Parameter : NOEC ( ISOTRIDEKANOL, ETHOXYLATED ( >= 2.5 ) ; CAS No. : 9043-30-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 0,37 mg/l  
Exposure time : 21 D

**Acute (short-term) toxicity to aquatic algae and cyanobacteria**

Parameter : EC50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Species : Daphnia magna (Big water flea)

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Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 230 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( C9-C11, ALCOHOLS, ETHOXYLATED (4 EO) ; CAS No. : 68439-46-3 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 1,4 mg/l  
Exposure time : 96 h  
Parameter : EC50 ( ALCOHOLS, ETHOXYLATED, C9-C11 (5.5 EO) ; CAS No. : 68439-46-3 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 1,4 mg/l  
Exposure time : 96 h  
Parameter : EC50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( ISOTRIDEKANOL, ETHOXYLATED ( >= 2.5 ) ; CAS No. : 9043-30-5 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 1 - 10 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : EC50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Method : OECD 201  
Parameter : EC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 h

**Toxicity to microorganisms**

Parameter : EC50 ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )  
Species : Bacteria toxicity  
Effective dose : > 100 mg/l  
Exposure time : 3 h  
Parameter : EC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Species : Bacteria toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 3 h  
Parameter : EC50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Species : Bacteria toxicity  
Effective dose : > 1000 mg/l  
Parameter : EC50 ( ISOTRIDEKANOL, ETHOXYLATED ( >= 2.5 ) ; CAS No. : 9043-30-5 )  
Species : Bacteria toxicity  
Effective dose : 140 mg/l

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Parameter : EC50 ( C9-C11, ALKOHOLS, ETHOXYLATED (4 EO) ; CAS No. : 68439-46-3 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 10 g/l  
Exposure time : 16,9 h  
Method : DIN 38412 / part 8  
Parameter : EC50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Species : Bacteria toxicity  
Effective dose : > 658 mg/l  
Exposure time : 16 h  
Parameter : EC50 ( ALCOHOLS, ETHOXYLATED, C9-C11 (5.5 EO) ; CAS No. : 68439-46-3 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 10 g/l  
Exposure time : 16,9 h  
Method : DIN 38412 / part 8  
Parameter : EC10 ( ALCOHOLS, ETHOXYLATED, C9-C11 (5.5 EO) ; CAS No. : 68439-46-3 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 10 g/l  
Exposure time : 16,9 h  
Method : DIN 38412 / part 8  
Parameter : EC10 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Species : Bacteria toxicity  
Effective dose : > 1995 mg/l  
Exposure time : 30 min  
Parameter : EC10 ( C9-C11, ALKOHOLS, ETHOXYLATED (4 EO) ; CAS No. : 68439-46-3 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 10 g/l  
Exposure time : 16,9 h  
Method : DIN 38412 / part 8

## 12.2 Persistence and degradability

### Biodegradation

Parameter : Biodegradation ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 99,8 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301B  
Parameter : Biodegradation ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 99,8 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301B  
Parameter : Biodegradation ( C9-C11, ALKOHOLS, ETHOXYLATED (4 EO) ; CAS No. : 68439-46-3 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 72 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).

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Parameter : Biodegradation ( ALCOHOLS, ETHOXYLATED, C9-C11 (5.5 EO) ; CAS No. : 68439-46-3 )  
Inoculum : Biodegradation  
Degradation rate : > 60 %  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301B

Parameter : Biodegradation ( ALCOHOLS C10, ETHOXYLATED )  
Inoculum : Biodegradation  
Degradation rate : > 60 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301B

Parameter : Biodegradation ( QUATERNARY AMMONIA COMPOUNDS )  
Inoculum : Biodegradation  
Degradation rate : > 60 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301D

Parameter : Biodegradation ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Inoculum : Biodegradation  
Degradation rate : 95 - 97 %  
Test duration : 21 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301A

Parameter : Biodegradation ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Inoculum : Biodegradation  
Degradation rate : 90 - 100 %  
Test duration : 14 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301E

Parameter : Biodegradation ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Inoculum : Biodegradation  
Degradation rate : 90 - 100 %  
Test duration : 8 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 302B

Parameter : CO2 formation (% of the theoretical value) ( ISOTRIDECANOL, ETHOXYLATED ( >= 2.5) ; CAS No. : 9043-30-5 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : > 60 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301B

Parameter : CO2 formation (% of the theoretical value) ( ISOTRIDECANOL, ETHOXYLATED ( >= 2.5) ; CAS No. : 9043-30-5 )  
Inoculum : Degree of elimination  
Evaluation parameter : Anaerobic  
Degradation rate : > 60 %  
Test duration : 60 D  
Evaluation : Biodegradable.  
Method : OECD 311

### 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

### 12.4 Mobility in soil

No information available.

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## 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

## 12.6 Other adverse effects

No information available.

## 12.7 Additional ecotoxicological information

P273 - Avoid release to the environment.

## SECTION 13: Disposal considerations

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. List of proposed waste codes/waste designations in accordance with EWC

### 13.1 Waste treatment methods

#### Product/Packaging disposal

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

##### Waste code product

- 07 06 99 - wastes not otherwise specified.
- 20 01 29\* - detergents containing dangerous substances.

##### Waste code packaging

- 15 01 02 - plastic packaging.

##### Waste treatment options

##### Appropriate disposal / Package

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

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

## SECTION 14: Transport information

### 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 Transport in bulk according to Annex II of Marpol and the IBC Code

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



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## Restrictions on use

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

## Restrictions of occupation

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

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

## Other regulations (EU)

### Labelling for contents according to regulation (EC) No. 648/2004

5 - 15 % non-ionic surfactants

5 - 15 % anionic surfactants

< 5 % cationic surfactants

## National regulations

### Restrictions of occupation

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

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

### Water hazard class (WGK)

Classification according to AwSV - Class : 2 (Obviously 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

02. Classification of the substance or mixture · 03. Hazardous ingredients · 08. Occupational exposure limit values

### 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)

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)

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

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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]**

No information available.

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

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

**16.6 Training advice**

None

**16.7 Additional information**

None

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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.

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