

# Safety Data Sheet

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



Trade name : UNO S PF  
Revision date : 31.01.2024  
Print date : 31.01.2024

Version (Revision) : 7.0.1 (6.1.4)

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

### 1.1 Product identifier

UNO S PF  
Unique Formula Identifier : 8940-G092-P001-W67Y

### 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]

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

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

POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3

##### 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.

P310 Immediately call a POISON CENTER/doctor/....

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

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

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## 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

2-(2-BUTOXYETHOXY)ETHANOL ; REACH No. : 01-2119475104-44-XXXX ; EC No. : 203-961-6; CAS No. : 112-34-5

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

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

Substance with a common (EC) occupational exposure limit value.

ALCOHOLS, C10-C12, ETHOXYLATED, PROPOXYLATED  $\geq 2.5$  EO/PO ; REACH No. : (Polymer) ; CAS No. : 68154-97-2

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

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

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

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

Weight fraction :  $\geq 1 - < 2 \%$

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

POTASSIUM HYDROXIDE ; REACH No. : 01-2119487136-33-XXXX ; EC No. : 215-181-3; CAS No. : 1310-58-3

Weight fraction :  $\geq 1 - < 2 \%$

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

Specific Conc. Limits : Skin Corr. 1A ; H314: C  $\geq 5 \%$  • Eye Dam. 1 ; H318: C  $\geq 2 \%$  • Skin Corr. 1B ; H314: C  $\geq 2 \%$  • Skin Corr. 1C ; H314: C  $\geq 2 \%$  • Eye Irrit. 2 ; H319: C  $\geq 0,5 \%$  • Skin Irrit. 2 ; H315: C  $\geq 0,5 \%$

#### 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 damage. Causes skin irritation.

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

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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 .

#### 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

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5

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

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Limit value : 10 ppm / 67 mg/m<sup>3</sup>  
Peak limitation : 1,5(l)  
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

## DNEL-/PNEC-values

### DNEL/DMEL

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 6,25 mg/kg bw/day  
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>  
POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1  
Limit value type : DNEL Consumer (local)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 0,048 mg/cm<sup>2</sup>  
SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5  
Limit value type : DNEL Consumer (local)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 0,048 mg/cm<sup>2</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 6,6 mg/m<sup>3</sup>  
POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 6,6 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 68,1 mg/kg bw/day  
SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 68,1 mg/kg bw/day  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral

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Exposure frequency : Long-term  
Limit value : 3,8 mg/kg bw/day  
POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 3,8 mg/kg bw/day  
Limit value type : DNEL worker (local)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 0,096 mg/cm<sup>2</sup>  
SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5  
Limit value type : DNEL worker (local)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 0,096 mg/cm<sup>2</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 37,4 mg/m<sup>3</sup>  
POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 37,4 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 191 mg/kg bw/day  
SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 191 mg/kg bw/day  
DISODIUM METASILICATE ; CAS No. : 6834-92-0  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 1,55 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 0,74 mg/kg bw/day  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 0,74 mg/kg bw/day  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 6,22 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 1,49 mg/kg  
POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3

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Limit value type : DNEL Consumer (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 1 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 1 mg/m<sup>3</sup>

## PNEC

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5

Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 1,1 mg/l  
Limit value type : PNEC (Aquatic, intermittent release)  
Limit value : 11 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,11 mg/l  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 4,4 mg/kg dw  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 0,44 mg/kg dw  
Limit value type : PNEC (Soil)  
Limit value : 0,32 mg/kg dw  
Limit value type : PNEC (Secondary poisoning)  
Limit value : 56 mg/kg food

## 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 : NBR (Nitrile rubber)

Breakthrough 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

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## Suitable respiratory protection apparatus

Combination filtering device  
Type : A P2

## 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

Colour : red

#### Odour

like: Ether , sweetish

#### Safety characteristics

Freezing point :	( 1013 hPa )	approx.	-2,5 °C	
Initial boiling point and boiling range :	( 1013 hPa )	approx.	98 °C	
Flash point :			not relevant	DIN EN ISO 13736
Auto-ignition temperature :			none	
Flammability :			non-flammable	
Lower explosion limit :			not relevant	
Upper explosion limit :			not relevant	
Vapour pressure :	( 20 °C )	<	24 hPa	Calculated
Density :	( 20 °C )	approx.	1,03 g/cm <sup>3</sup>	
Water solubility :	( 20 °C )		completely miscible	
pH :	( 20 °C )	approx.	13	
Cinematic viscosity :	( 20 °C )	<	30 mm <sup>2</sup> /s	
Relative vapour density :	( 20 °C )		not determined	
Maximum VOC content (EC) :			0 Weight-%	
Maximum VOC content (Switzerland) :			4 Weight-%	
Taxable VOC content (Switzerland) :			4 Weight-%	

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

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

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## 10.4 Conditions to avoid

No information available.

## 10.5 Incompatible materials

Aluminium Zinc

## 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
Parameter :	LD50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 7000 mg/kg
Method :	OECD 401
Parameter :	LD50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 7000 mg/kg
Method :	OECD 401
Parameter :	LD50 ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )
Exposure route :	Oral
Species :	Mouse
Effective dose :	770 - 820 mg/kg
Parameter :	LD50 ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1152 - 1349 mg/kg
Parameter :	LD50 ( POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3 )
Exposure route :	Oral
Species :	Rat
Effective dose :	365 mg/kg
Method :	OECD 425
Parameter :	LD50 ( ALCOHOLS, C10-C12, ETHOXYLATED, PROPOXYLATED >= 2.5 EO/PO ; CAS No. : 68154-97-2 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 423

##### Acute dermal toxicity

Parameter :	ATEmix
Exposure route :	Dermal
Effective dose :	> 2000 mg/kg



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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 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg  
Method : OECD 402  
Parameter : LD50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
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

## Acute inhalation toxicity

Parameter : ATEmix  
Exposure route : Inhalation  
Effective dose : > 20 mg/l  
Parameter : LC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 6,41 mg/l  
Exposure time : 232 min  
Method : OECD 403  
Parameter : LC50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 6,41 mg/l  
Exposure time : 232 min  
Method : OECD 403  
Parameter : LC50 ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 2,06 mg/l  
Exposure time : 4 h

## Corrosion

### Skin corrosion/irritation

Parameter : Skin corrosion/irritation ( ALCOHOLS, C10-C12, ETHOXYLATED, PROPOXYLATED  
>= 2.5 EO/PO ; CAS No. : 68154-97-2 )  
Species : Rabbit  
Result : Non-irritant  
Method : OECD 404  
Parameter : Skin corrosion/irritation ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )  
Species : Rabbit  
Result : Causes burns  
Method : OECD 404  
Parameter : Skin corrosion/irritation ( POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3 )  
Result : Causes severe burns  
Method : OECD 431  
Causes skin irritation.

### Acid/alkaline reserve

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

Results from in vitro test for skin corrosivity/irritancy:  
Human Skin Model (HSM) test ( OECD 431 ) No need for classification as corrosive in spite of the extreme pH.  
Test was carried out with a similar formulation. (UNO S) Bridging principle "Substantially similar mixtures".

### Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation ( ALCOHOLS, C10-C12, ETHOXYLATED, PROPOXYLATED >= 2.5 EO/PO ; CAS No. : 68154-97-2 )  
Species : Rabbit  
Result : Causes serious eye irritation Reversible.  
Method : OECD 405  
Parameter : Serious eye damage/eye irritation ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Species : Rabbit  
Result : Causes serious eye irritation  
Method : OECD 405  
Parameter : Serious eye damage/eye irritation ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Species : Rabbit  
Result : Causes serious eye irritation  
Method : OECD 405  
Parameter : Serious eye damage/eye irritation ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )  
Result : Causes serious eye damage  
Parameter : Serious eye damage/eye irritation ( POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3 )  
Result : Causes serious eye damage  
Method : OECD 405  
Causes serious eye damage.

### 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 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

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Frequently or prolonged contact with skin may cause dermal irritation. May be absorbed through the skin. 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 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )
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 ( 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 HYDROXIDE ; CAS No. : 1310-58-3 )
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	80 mg/l
Exposure time :	96 h
Parameter :	LC50 ( ALCOHOLS, C10-C12, ETHOXYLATED, PROPOXYLATED >= 2.5 EO/PO ; CAS No. : 68154-97-2 )
Species :	Danio rerio (zebrafish)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 1 - 10 mg/l
Exposure time :	96 h
Method :	OECD 203

##### 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 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	> 100 mg/l
Exposure time :	48 h

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Parameter : EC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : > 100 mg/l  
Exposure time : 48 h

Parameter : EC50 ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : 1700 mg/l  
Exposure time : 48 h  
Method : OECD 202

Parameter : EC50 ( ALCOHOLS, C10-C12, ETHOXYLATED, PROPOXYLATED >= 2.5 EO/PO ; CAS No. : 68154-97-2 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : > 1 - 10 mg/l  
Exposure time : 48 h  
Method : OECD 202

**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  
Exposure time : 48 h  
Method : OECD 201

Parameter : EC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : > 100 mg/l  
Exposure time : 72 h

Parameter : EC50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : > 100 mg/l  
Exposure time : 72 h

Parameter : EC50 ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : 207 mg/l  
Exposure time : 72 h  
Method : DIN 38412 / part 9

Parameter : ErC50 ( ALCOHOLS, C10-C12, ETHOXYLATED, PROPOXYLATED >= 2.5 EO/PO ; CAS No. : 68154-97-2 )  
Species : Selenastrum capricornutum  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : > 1 - 10 mg/l  
Exposure time : 72 h  
Method : Regulation (EC) No. 440/2008, Annex C.3

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

Parameter : NOEC ( ALCOHOLS, C10-C12, ETHOXYLATED, PROPOXYLATED >= 2.5 EO/PO ; CAS No. : 68154-97-2 )  
Species : Selenastrum capricornutum  
Evaluation parameter : Chronic (long-term) toxicity to aquatic algae and cyanobacteria  
Effective dose : 1,7 mg/l  
Exposure time : 72 h  
Method : Regulation (EC) No. 440/2008, Annex C.3

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## 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 ( POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1 )  
Species : Toxicity to microorganisms  
Effective dose : > 1000 mg/l  
Exposure time : 3 h  
Parameter : EC50 ( SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5 )  
Species : Toxicity to microorganisms  
Effective dose : > 1000 mg/l  
Parameter : EC50 ( DISODIUM METASILICATE ; CAS No. : 6834-92-0 )  
Species : Toxicity to microorganisms  
Effective dose : > 100 mg/l  
Exposure time : 3 h

## 12.2 Persistence and degradability

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

### Biodegradation

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 : 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 ( ALCOHOLS, C10-C12, ETHOXYLATED, PROPOXYLATED >= 2.5 EO/PO ; CAS No. : 68154-97-2 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : > 60 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301B

## 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

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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.

## 12.8 Additional ecotoxicological information

After neutralisation, reduction in toxic effects is observed.

## 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

- 07 06 01\* (Aqueous washing liquids and mother liquors)
- 20 01 29\* (Detergents containing hazardous substances)

##### Other disposal recommendations

Dispose of waste according to applicable legislation. 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

### 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

not relevant

## 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

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

#### Restrictions of occupation

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).  
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### Other regulations (EU)

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

< 5 % anionic surfactants  
< 5 % non-ionic surfactants

#### National regulations

##### 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

01. Unique Formula Identifier · 03. Hazardous ingredients · 08. Occupational exposure limit values · 15. Restrictions on use · 15. Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

### 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)  
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  
|-> COMMISSION REGULATION (EU) 2020/878 of 18 June 2020  
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

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## 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 :

Skin Irrit. 2 : Human Skin Model (HSM) test ( OECD 431 )

Eye Dam. 1 : In vitro eye test ( OECD 437 )

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

## 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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