

## Safety data Sheet

### According to regulation (EC) No 1907/2006 (REACH)

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## STAINEX-CLEANER

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Emergency 24 Hour Telephone:

Poison Information Service: 13 11 26  
Fire Brigade: 000  
Police: 000

### 1. Identification:

Product Name: **STAINEX-CLEANER**  
Recommended Use: Washing and cleaning products

### 2. Hazard Identification:

#### 2.1 Classification of the substance or mixture

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

Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.

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



CORROSIVE

Corrosion (GHS05)

##### Signal word

Danger

##### Hazard components for labelling

PHOSPHORIC ACID ; CAS No. : 7664-38-2

##### Hazard statements

H290 May be corrosive to metals.  
H318 Causes serious eye damage.  
H315 Causes skin irritation.

#### Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER/doctor/....
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of water/....
P362+P364	Take off contaminated clothing and wash it before reuse.
P390	Absorb spillage to prevent material damage.

#### 2.3 Other hazards None

### 3. Composition/information on ingredients:

#### Mixtures

##### Hazardous ingredients

PHOSPHORIC ACID; REACH registration No. : 01-2119485924-24-XXXX ; EC No. : 231-633-2; CAS No. : 7664-38-2

Weight fraction:  $\geq 10 - < 25 \%$   
Classification 1272/2008 [CLP]: Met. Corr. 1 ; H290 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Substance with a common (EC) occupational exposure limit value.

Specific Conc. Limits; Eye Dam.1; H318 C  $\geq 25\%$  -Skin Corr. 1B; H314 C  $\geq 25\%$  -Skin Corr. 1C; H314: C  $\geq 25\%$  -Eye Irrit. 2; H319: C  $\geq 10\%$  -Skin Irrit. 2; H315: C  $\geq 10\%$

2-BUTOXYETHANOL; REACH registration 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. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 Substance with a common (EC) occupational exposure limit value.

BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; REACH registration No. : 01-2119489428-22-XXXX ; EC No. : 270-115-0; CAS No. : 68411-30-3

Weight fraction:  $\geq 1 - < 3 \%$   
Classification 1272/2008 [CLP]: Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Aquatic Chronic 3 ; H412

POTASSIUM CUMENESULFONATE ; REACH registration No. : 01-2119489427-24-XXXX ; EC No. : 248-827-8; CAS No. : 28085-69-0

Weight fraction :  $\geq 1 - < 5 \%$   
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

SODIUM CUMENESULPHONATE: REACH registration No. : 01-2119489411-37-XXXX ; EC No. : 248-983-7; CAS No. : 28348-83-0

Weight fraction :  $\geq 1 - < 5 \%$   
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

#### Additional information

Full text of H- and EUH-phrases: see section 16.

### 4. First aid measures:

#### 4.1 Description of first aid- measures

##### General information

When in doubt or if symptoms are observed, get medical advice.

##### Following inhalation

In case of respiratory tract irritation, consult a physician. Remove casualty to fresh air and keep warm and at rest.

##### In case of skin contact

P332+P313 - If skin irritation occurs: Get medical advice/attention. After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

##### After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

##### After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Causes skin irritation. Causes serious eye damage.

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

None



## 5. Fire-fighting 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

Carbon dioxide (CO<sub>2</sub>) Carbon monoxide.

### 5.3 Advice for firefighters.

Wear a self-contained breathing apparatus and chemical protective clothing.

### 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. Do not allow run-off from fire-fighting to enter drains or water courses.

## 6. Accidental release measures

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

Use personal protection equipment. Clear spills immediately. Special danger of slipping by leaking/spilling products.

### 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

## 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.

#### Requirements for storage rooms and vessels

P234 - Keep only in original container. P406 - Store in corrosive resistant/... container with a resistant inner liner

#### Hints on storage assembly

Storage class (TRGS 510) : 8B

### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## 8. Exposure controls / personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

PHOSPHORIC ACID ; CAS No. :7664-38-2

Limit value type (country of origin) :	TRGS 900 ( D )
Parameter :	E: inhalable fraction
Limit value :	2 mg/m <sup>3</sup>
Peak limitation:	2 (I)
Remark :	Y
Version :	07.06.2018
Limit value type (country of origin) :	STEL (EC)
Limit value:	2 mg/m <sup>3</sup>
Version :	31.01.2018
Limit value type (country of origin) :	TWA (EC)
Limit value:	1 mg/m <sup>3</sup>
Version :	31.01.2018
2- BUTOXETHANOL: CAS No :	111-76-2
Limit value type (country of origin) :	TRGS 900 ( D )
Limit value :	10 ppm / 94 mg/m <sup>3</sup>
Peak limitation:	4(II)
Remark :	H,Y
Version :	07.06.2018
Limit value type (country of origin) :	STEL (EC)
Limit value :	50 ppm / 246 mg/m <sup>3</sup>
Remark :	H
Version :	31.01.2018
Limit value type (country of origin) :	TWA (EC)



Limit value : 20 ppm / 98 mg/m<sup>3</sup>  
Remark : H  
Version : 31.01.2018

**Biological limit values**

2-BUTOXETHANOL: CAS No : CAS NO: 111-76-2  
Limit value type (country of origin) : TRGS 903 (D)  
Parameter: Butoxy acetic acid/Urine (U) / at long term exposure after several previous shifts  
Limit value : 100 mg/l  
Version : 07.06.2018  
Limit value type (country of origin) : TRGS 903 (D)  
Parameter: Butoxy acetic acid/Urine (U) / at long term exposure after several previous shifts  
Limit value : 150 mg/g Kr  
Version : 07.06.2018

**DNEL/ DMEL and PNEC Values**

**DNEL/DMEL**

Limit value type: DNEL worker (local) (2-BUTOXYETHANOL; CAS No. : 111-76-2)  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 246 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local) (PHOSPHORIC ACID ; CAS No. : 7664-38-2)  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 1 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local) ( BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; CAS No. : 68411-30-3 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 12 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local) ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 2 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) (POTASSIUM CUMENESULFONATE ; CAS No. : 28085-69-0)  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 53,6 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) (2-BUTOXYETHANOL; CAS No. : 111-76-2)  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 98 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) (BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; CAS No. : 68411-30-3 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 12 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) (SODIUM CUMENESULPHONATE; CAS No. : 28348-53-0)  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 53,6 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) (SODIUM CUMENESULPHONATE; CAS No. : 28348-53-0)  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 7,6 mg/kg  
Limit value type : DNEL worker (systemic) (BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; CAS No. : 68411-30-3 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 170 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) (2-BUTOXYETHANOL; CAS No: 111-76-2)  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 663 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( POTASSIUM CUMENESULFONATE ; CAS

Exposure route :	No. :28085-69-0
Exposure frequency :	Dermal
Limit value :	Long-term (repeated)
Limit value type :	7,6 mg/kg
Exposure route :	DNEL worker (systemic) (2-BUTOXYETHANOL; CAS No.: 111-76-2)
Exposure frequency :	Dermal
Limit value :	Long-term (repeated)
Limit value type :	75 mg/kg
Exposure route :	DNEL worker (systemic) (2-BUTOXYETHANOL; CAS No.: 111-76-2)
Exposure frequency :	Dermal
Limit value :	Short-term (acute)
	89 mg/kg

#### PNEC

Limit value type :	PNEC (Aquatic freshwater) (2-BUTOXYETHANOL; CAS No : 111-76-2)
Limit value :	8.8 mg/l
Limit value type :	PNEC (Aquatic marine water) (2-BUTOXYETHANOL; CAS No : 111-76-2)
Limit value :	0.88 mg/l
Limit value type :	PNEC (Sediment freshwater) (2-BUTOXYETHANOL; CAS No : 111-76-2)
Limit value :	34.6mg/l
Limit value type :	PNEC (Soil) (2-BUTOXYETHANOL; CAS No : 111-76-2)
Limit value :	2.33 mg/kg
Limit value type :	PNEC (Sewerage treatment plant) (2-BUTOXYETHANOL; CAS No : 111-76-2)
Limit value :	463 mg/l

## 8.2 Exposure controls

### Personal protective 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

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

#### General health and safety measures

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

## 9. Physical and chemical properties:

### 9.1 Information on basic physical and chemical physical and chemical properties

**Appearance:** liquid

**Colour :** yellow

**Odour :** characteristic

#### Safety relevant basis data

<b>Solidifying point :</b>	(1013 hPa)	<	0	°C
<b>Initial boiling point and boiling range :</b>	(1013hPa)	approx.	98	°C
<b>Flash point :</b>			not relevant	
<b>Ignition temperature :</b>			not relevant	
<b>Lower explosion limit :</b>			not relevant	
<b>Upper explosion limit :</b>			not relevant	
<b>Density :</b>	( 20 °C )	approx.	1,1	g/cm <sup>3</sup>
<b>pH :</b>		approx.	1,5	
<b>Maximum VOC content (EC) :</b>			5	Wt %
<b>Maximum VOC content (Switzerland) :</b>			5	Wt %
<b>Corrosive to metals :</b>	May be corrosive to metals.			

### 9.2 Other information

None

## 10. Stability and reactivity

### 10.1 Reactivity

Exothermic reaction with Alkali (lye).

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

No know hazardous reaction.

### 10.4 Conditions to avoid

No information available

### 10.5 Incompatible materials

Metal, base.

### 10.6 Hazardous decomposition products

No information available.

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter:	ATEmix calculated
Exposure route:	Oral
Effective dose:	> 2000 mg/kg
Parameter:	LD50 (POTASSIUM CUMENESULFONATE ; CAS No. : 28085-69-0)
Exposure route:	Oral
Species:	Rat
Effective dose:	> 2000 mg/kg
Parameter:	LD50 ( SODIUM CUMENESULPHONATE; CAS No.: 28348-53-0)
Exposure route:	Oral
Species:	Rat
Effective dose:	> 2000 mg/kg
Parameter:	LD50 (BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS; CAS No. : 68411-30-3 )
Exposure route:	Oral
Species:	Rat
Effective dose:	1080 mg/kg
Method :	OECD 401
Parameter:	LD50 ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 )
Exposure route:	Oral
Species:	Rat
Effective dose:	1530 mg/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 calculated  
Exposure route: Dermal  
Effective dose: > 2000 mg/kg  
Parameter: LD50 (SODIUM CUMENESULPHONATE; CAS No.: 28348-53-0)  
Exposure route: Dermal  
Species: Rat  
Effective dose: > 2000 mg/kg  
Parameter: LD50 (BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS; CAS No. : 68411-30-3 )  
Exposure route: Dermal  
Species: Rat  
Effective dose: > 300 - 2000 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  
Parameter: LD50 ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 )  
Exposure route: Dermal  
Species: Rabbit  
Effective dose: 2740 mg/kg

**Acute inhalation toxicity**

Parameter: ATEmix calculated  
Exposure route: Inhalation (vapour)  
Effective dose: > 20 mg/l  
Parameter: ATEmix calculated  
Exposure route: Inhalation (dust/mist)  
Effective dose: > 5 mg/l  
Parameter: LC50 ( SODIUM CUMENESULPHONATE ; CAS No. : 28348-53-0 )  
Exposure route: Inhalation  
Species: Rat  
Effective dose: > 5 mg/l  
Exposure time 4 h  
  
Parameter: LD50 (2-BUTOXYETHANOL; CAS No. : 111-76-2 )  
Exposure route: Inhalation  
Species: Rat  
Effective dose: 2 - 20 mg/l  
Exposure time 4 h

**Irritant and corrosive effects**

**Primary irritant to the skin** No further relevant information available  
**Irritation to eyes** No further relevant information available

**Sensitisation**

**In case of skin contact** No further relevant information available  
**In case of inhalation** 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.



## 12. Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

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

Parameter	LC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 28085-69-0)
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. : 28348-53-0)
Species :	Cyprinus carpio (Common Carp)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/kg
Exposure time :	96 h
Parameter :	LC50 ( BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; CAS No. : 68411-30-3 )
Species :	Lepomis macrochirus (Bluegill)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	1,67 mg/l
Exposure time :	96 h
Parameter :	LD50 (2-BUTOXYETHANOL; CAS No. : 111-76-2)
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	1474mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LD50 (2-BUTOXYETHANOL; CAS No. : 111-76-2)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	1815 mg/l
Exposure time :	24 h
Method :	DIN 38412 / part 11
Parameter :	LC50 ( BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; CAS No. : 68411-30-3 )
Species :	Daphnia
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	3,5 mg/l
Exposure time :	96 h
Parameter :	LD50 (2-BUTOXYETHANOL; CAS No. : 111-76-2)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Chronic (long-term) daphnia toxicity
Effective dose :	297 mg/l
Exposure time :	21 d
Method :	OECD 211

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

Parameter :	NOEC ( BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; CAS No. : 68411-30-3 )
Species :	Fish
Evaluation parameter :	Chronic (long-term) fish toxicity
Effective dose :	0,25 mg/l
Exposure time :	90 d
Parameter :	LOEC ( BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; CAS No. : 68411-30-3 )
Species :	Fish
Evaluation parameter :	Chronic (long-term) fish toxicity
Effective dose :	0,51 mg/l
Exposure time :	90 d

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

Parameter :	EC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 28085-69-0)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	> 100 mg/l
Exposure time :	48 h

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





Parameter :	NOEC ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 )
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	56 mg/l
Exposure time :	48 h
Method :	OECD 202
Parameter :	NOEC (2-BUTOXYETHANOL; CAS No. : 111-76-2)
Species :	Brachydanio rerio (zebra-fish)
Evaluation parameter :	Chronic (long-term) fish toxicity
Effective dose :	> 100 mg/l
Exposure time :	21 d
Method :	OECD 204
Parameter :	NOEC (2-BUTOXYETHANOL; CAS No. : 111-76-2)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Chronic (long-term) daphnia toxicity
Effective dose :	100 mg/l
Exposure time :	21 d
Method :	OECD 211
Parameter :	NOEC ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 )
Species :	Desmodesmus subspicatus
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	100 mg/l
Exposure time :	72 h
Method :	OECD 201
Parameter :	NOEC ( BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; CAS No. : 68411-30-3 )
Species :	Scenedesmus subspicatus
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	2,4 mg/l
Exposure time :	72 h
Method :	OECD 201
Parameter :	NOEC (2-BUTOXYETHANOL; CAS No. : 111-76-2)
Species :	Algae
Effective dose :	286 mg/l
Exposure time :	72 h
Method :	OECD 201
Parameter :	LOEC ( BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; CAS No. : 68411-30-3 )
Species :	Daphnia
Evaluation parameter :	Chronic (long-term) daphnia toxicity
Effective dose :	4 mg/l
Exposure time :	28d

**Acute (short-term) algae toxicity**

Parameter :	EC50 ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 )
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 (2-BUTOXYETHANOL; CAS No. : 111-76-2)
Species :	Algae
Effective dose :	1840 mg/l
Exposure time :	72 h
Method :	OECD 201
Parameter :	EC50 ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 )
Species :	Desmodesmus subspicatus
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	> 100 mg/l
Exposure time :	72 h
Method :	OECD 201
Parameter :	EC50 (SODIUM CUMENESULPHONATE ; CAS No. : 28348-53-0)
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. : 28348-53-0)
Species :	Desmodesmus subspicatus
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	> 100 mg/l
Exposure time :	72 h
Parameter :	EC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 28085-69-0)
Species :	Desmodesmus subspicatus
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	> 100 mg/l
Exposure time :	72 h

#### Bacteria toxicity

Parameter :	EC50 ( POTASSIUM CUMENESULFONATE ; CAS No. : 28085-69-0)
Species :	Bacteria toxicity
Effective dose :	> 1000 mg/l
Exposure time :	3h
Parameter :	EC50 (SODIUM CUMENESULPHONATE ; CAS No. : 28348-53-0)
Species :	Bacteria toxicity
Effective dose :	> 1000 mg/l

## 12.2 Persistence and degradability

### Biodegradation

Parameter :	Biodegradation (2-BUTOXYETHANOL; CAS No. : 111-76-2)
Inoculum :	Biodegradation
Degradation rate :	88%
Test duration :	20 d
Parameter :	Biodegradation ( POTASSIUM CUMENESULFONATE ; CAS No. : 28085-69-0)
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. : 28348-53-0)
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	99.8%
Test duration :	28 d
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301B
Parameter :	CO2 formation (% of the theoretical value) ( BENZENESULFONICACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS; CAS No. : 68411-30-3 )
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	85 %
Test duration :	29 d
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301B

According to the recipe, contains no AOX. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

### 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

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

Do not allow uncontrolled discharge of product into the environment. After neutralisation, reduction in toxic effects is observed.



### 13. Disposal considerations

The allocation of waste identify 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 01\* - aqueous washing liquids and mother liquors  
20 01 29\* - detergents containing dangerous substances.

##### Waste code packaging

15 01 02 – plastic packaging

##### Waste treatment options

##### Appropriate disposal / Package

Contaminated packaging 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.

### 14. Transport information

#### 14.1 UN number

UN 1760

#### 14.2 UN proper shipping name

##### Land transport (ADR/RID)

CORROSIVE LIQUID, N.O.S. ( PHOSPHORIC ACID )

##### Sea transport (IMDG)

CORROSIVE LIQUID, N.O.S. ( PHOSPHORIC ACID )

##### Air transport (ICAO-TI / IATA-DGR)

CORROSIVE LIQUID, N.O.S. ( PHOSPHORIC ACID )

#### 14.3 Transport hazard class(es)

##### Land transport (ADR/RID)

Class(es) : 8  
Classification code : C9  
Hazard identification number (Kemler No.) : 80  
Tunnel restriction code : E  
Special provisions : LQ 5 | · E 1  
Hazard label(s) :

8



##### Sea transport (IMDG)

Class(es) : 8  
EmS-No. : F-A / S-B  
Special provisions : LQ 5 | · E 1 · IMDG-Code segregation group 1- Acids  
Hazard label(s) :

8



##### Air transport (ICAO-TI / IATA-DGR)

Class(es) : 8  
Hazard label(s) :

8



#### 14.4 Packing group

III

#### 14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

#### 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

## 15. Regulatory information

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

#### EU legislation

##### Authorisation and/or restrictions on use

##### 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).

#### Other regulations (EU)

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

5 - 15 % anionic surfactants  
< 5 % non-ionic surfactants  
< 5 % amphoteric surfactants

##### National regulations

AT: Labelling according to Austrian regulations (Chemikaliengesetz/ChemV).  
CH: Chemikalienverordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

##### Water hazard class (WGK)

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.

## 16. Other information

### 16.1 Indication of changes

03. Hazardous ingredients - 08.Occupational exposure limit values -08 DNEL/DMEL – 14. Transport in bulk according to Annex II of Marpol and the IBC Code – 15.Storfallverordnung - 15. Water hazard class (WGK)

### 16.2 Abbreviations and acronyms

**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
**AOX:** adsorbable organisch gebundene Halogens  
**AwSV:** Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen  
**CAS:** Chemical Abstracts Service (division of the American Chemical Society)  
**CLP:** Classification Labelling and Packaging (Regulation (EC) No. 1272/2008)  
**EAK / AVV:** europäischer Abfallschlüsselkatalog Abfallverzeichnis-Verordnung (european waste catalogue)  
**EINECS:** European Inventory of Existing Commercial Chemical Substances  
**GHS:** Globally Harmonized System of Classification and Labelling of Chemicals  
**IATA:** International Air Transport Association  
**ICAO:** International Civil Aviation Organization  
**IMDG:** International Maritime Code for Dangerous Goods  
**RCP:** reciprocal calculation procedure  
**RID:** Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
**TRGS:** Technische Regel für den Umgang mit Gefahrstoffen  
**VbF:** Verordnung über brennbare Flüssigkeiten  
**VOC:** volatile organic compound VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
**VwVwS:** Verwaltungsvorschrift wassergefährdender Stoffe  
**WGK:** Wassergefährdungsklasse (water hazardous class)



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) 1272/2008 [CLP]**

No information available.

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
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.
H412	Harmful to aquatic life with long lasting effects.

16.6 **Training advice**

None

16.6 **Additional Information**

None

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The above information describes exclusively the safety requirements of the products 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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