

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 (CO₂) 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 (CO₂) 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) :

Parameter :

Limit value :

Peak limitation:

Remark :

Version :

Limit value type (country of origin) :

Limit value:

Version :

Limit value type (country of origin) :

Limit value:

Version :

2- BUTOXETHANOL: CAS No :

Limit value type (country of origin) :

Limit value :

Peak limitation:

Remark :

Version :

Limit value type (country of origin) :

Limit value :

Remark :

Version :

Limit value type (country of origin) :

TRGS 900 (D)

E: inhalable fraction

2 mg/m³

2 (I)

Y

07.06.2018

STEL (EC)

2 mg/m³

31.01.2018

TWA (EC)

1 mg/m³

31.01.2018

111-76-2

TRGS 900 (D)

10 ppm / 94 mg/m³

4(II)

H,Y

07.06.2018

STEL (EC)

50 ppm / 246 mg/m³

H

31.01.2018

TWA (EC)



Limit value : 20 ppm / 98 mg/m³
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/m³
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/m³
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/m³
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/m³
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/m³
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/m³
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/m³
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/m³
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/m³
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/m³
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

Solidifying point :	(1013 hPa)	<	0	°C
Initial boiling point and boiling range :	(1013hPa)	approx.	98	°C
Flash point :			not relevant	
Ignition temperature :			not relevant	
Lower explosion limit :			not relevant	
Upper explosion limit :			not relevant	
Density :	(20 °C)	approx.	1,1	g/cm ³
pH :		approx.	1,5	
Maximum VOC content (EC) :			5	Wt %
Maximum VOC content (Switzerland) :			5	Wt %
Corrosive to metals :	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 I · E 1
 Hazard label(s) :

8



Sea transport (IMDG)

Class(es) : 8
 EmS-No. : F-A / S-B
 Special provisions : LQ 5 I · 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

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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