

Safety Data Sheet

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



Trade name : E-NOX Clean
Revision date : 20.04.2023
Print date : 20.04.2023

Version (Revision) : 4.0.4 (4.0.3)

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

1.1 Product identifier

E-NOX Clean

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 : Gewerbestraße 1

Postal code/City : 4653 Eberstälzell

Telephone : +43 7241 59 400

Telefax : +43 7241 59 400 10

Information contact : service@bio-circle.at

1.4 Emergency telephone number

+43 1 4064343 Vergiftungsinformationszentrale

SECTION 2: Hazards 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



Corrosion (GHS05)

Signal word

Danger

Hazard components for labelling

PHOSPHORIC ACID 20 % ; 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 and eye/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.

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P390 Absorb spillage to prevent material damage.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

PHOSPHORIC ACID ; REACH 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 No. : 01-2119475108-36-XXXX ; EC No. : 203-905-0; CAS No. : 111-76-2

Weight fraction : $\geq 5 - < 10 \%$

Classification 1272/2008 [CLP] : Acute Tox. 3 ; H331 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319
Substance with a common (EC) occupational exposure limit value.

Specific Conc. Limits : (ATE - oral : 1200 mg/kg) • (ATE - inhalative (vapour) : 3 mg/L)

BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; REACH 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 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

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

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

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

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Causes skin irritation. Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO₂) 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 (CO₂) , Phosphorus oxides , Sulphur oxides

5.3 Advice for firefighters

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

SECTION 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 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 .

Requirements for storage rooms and vessels

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

7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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Occupational exposure limit values

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

Limit value type (country of origin) : STEL (a)
Limit value : 2 mg/m³
Version :

Limit value type (country of origin) : TWA (a)
Limit value : 1 mg/m³
Version :

Limit value type (country of origin) : STEL (EC)
Limit value : 2 mg/m³
Version : 20.06.2019

Limit value type (country of origin) : TWA (EC)
Limit value : 1 mg/m³
Version : 20.06.2019

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

Limit value type (country of origin) : STEL (a)
Limit value : 40 ppm / 200 mg/m³
Version :

Limit value type (country of origin) : TWA (a)
Limit value : 0 ppm / 98 mg/m³
Version :

Limit value type (country of origin) : STEL (EC)
Limit value : 50 ppm / 246 mg/m³
Remark : Skin
Version : 20.06.2019

Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 98 mg/m³
Remark : Skin
Version : 20.06.2019

DNEL-/PNEC-values

DNEL/DMEL

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

Limit value type : DNEL worker (local)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 246 mg/m³

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

Limit value type : DNEL worker (local)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 1 mg/m³

BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; CAS No. : 68411-30-3

Limit value type : DNEL worker (local)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 12 mg/m³

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

Limit value type : DNEL worker (local)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 2 mg/m³

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1

Limit value type : DNEL worker (systemic)
Exposure route : Inhalation

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Exposure frequency : Long-term
Limit value : 53,6 mg/m³
2-BUTOXYETHANOL ; CAS No. : 111-76-2
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 98 mg/m³
BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; CAS No. : 68411-30-3
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 12 mg/m³
SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 53,6 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 7,6 mg/kg
BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; CAS No. : 68411-30-3
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 170 mg/m³
2-BUTOXYETHANOL ; CAS No. : 111-76-2
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 663 mg/m³
POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 7,6 mg/kg
2-BUTOXYETHANOL ; CAS No. : 111-76-2
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 75 mg/kg
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 89 mg/kg
PNEC
2-BUTOXYETHANOL ; CAS No. : 111-76-2
Limit value type : PNEC (Aquatic, freshwater)
Limit value : 8,8 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,88 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 34,6 mg/kg
Limit value type : PNEC (Soil)
Limit value : 2,33 mg/kg
Limit value type : PNEC (Sewage treatment plant)

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Limit value : 463 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection



Wear suitable safety goggles in case of splash.

Suitable eye protection

EN 166.

Skin protection

Hand protection



Suitable gloves type : EN 374.

Suitable material : 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

Suitable respiratory protection apparatus

Combination filtering device

Type : A

Remark

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

General information

P280 - Wear protective gloves/protective clothing and eye/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 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 : yellow

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Odour

like: Surfactant , Acid

Safety characteristics

Solidifying point :	(1013 hPa)	<	0	°C	
Initial boiling point and boiling range :	(1013 hPa)	approx.	98	°C	
Flash point :			not relevant		DIN EN ISO 13736
Auto-ignition temperature :			not relevant		
Flammability :			non-flammable		
Lower explosion limit :			not relevant		
Upper explosion limit :			not relevant		
Vapur pressure :	(20 °C)	<	24	hPa	Calculated
Density :	(20 °C)	approx.	1,1	g/cm ³	
Water solubility :	(20 °C)		completely miscible		
pH :	(20 °C)	approx.	1,5		
Cinematic viscosity :	(20 °C)	approx.	120	mm ² /s	
Relative vapour density :	(20 °C)		not determined		
Maximum VOC content (EC) :			5	Weight-%	
Maximum VOC content (Switzerland) :			5	Weight-%	
Taxable VOC content (Switzerland) :			5	Weight-%	
Corrosive to metals :			May be corrosive to metals.		

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

Exothermic reaction with: Alkali (lye).

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Metal, base

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 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Exposure route :	Oral
Species :	Rat

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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 (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
Exposure route : Dermal
Effective dose : > 2000 mg/kg
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 (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
Exposure route : Inhalation (vapour)
Effective dose : > 20 mg/l
Parameter : ATEmix

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Exposure route : Inhalation (dust/mist)
Effective dose : > 5 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 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Inhalation
Species : Rat
Effective dose : 2 - 20 mg/l
Exposure time : 4 h

Corrosion

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

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

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.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 1474 mg/l
Exposure time : 96 h
Method : OECD 203

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 (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 : 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

Chronic (long-term) fish toxicity

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

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) toxicity to crustacea

Parameter : EC50 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Daphnia magna (Big water flea)

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Evaluation parameter : Acute (short-term) toxicity to crustacea
Effective dose : 1550 mg/l
Exposure time : 48 h
Method : DIN 38412 / part 11
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
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

Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) toxicity to crustacea
Effective dose : 56 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : NOEC (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Species : Desmodesmus subspicatus
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria
Effective dose : 100 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : NOEC (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) toxicity to aquatic invertebrate
Effective dose : 100 mg/l
Exposure time : 21 D
Method : OECD 211
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
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 : 28 D

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) toxicity to crustacea
Effective dose : > 100 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria
Effective dose : 1840 mg/l

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Exposure time : 72 h
Method : OECD 201
Parameter : EC50 (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Species : Desmodesmus subspicatus
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria
Effective dose : > 100 mg/l
Exposure time : 72 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

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

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

Toxicity to microorganisms

Parameter : 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

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. : 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 : CO2 formation (% of the theoretical value) (BENZENESULFONIC ACID, C10-C13-ALKYL DERIVATES, SODIUM SALTS ; CAS No. : 68411-30-3)

Safety Data Sheet

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



Trade name : E-NOX Clean
Revision date : 20.04.2023
Print date : 20.04.2023

Version (Revision) : 4.0.4 (4.0.3)

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 surfactant contained in this mixture complies 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

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

Do not allow uncontrolled discharge of product into the environment. 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)

Remark

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

Other disposal recommendations

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

13.2 Additional information

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

SECTION 14: Transport information

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)

Safety Data Sheet

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



Trade name : E-NOX Clean
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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 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

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

Restrictions of occupation

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

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