

Safety Data Sheet

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



Trade name : Power Cleaner DB
Revision date : 19.10.2023
Print date : 20.10.2023

Version (Revision) : 5.0.1 (4.1.1)

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

1.1 Product identifier

* Power Cleaner DB
Unique Formula Identifier : N410-R0RD-A00Q-EJPK

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

PC 35 - Washing and cleaning products

Sectors of use [SU]

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Industrial uses

1.3 Details of the supplier of the safety data sheet

Supplier

Bio-Circle Surface Technology AG

Street : Aahusweg 16

Postal code/City : 6403 Küssnacht am Rigi

Telephone : 0041 41 878 1166

Telefax : 0041 41 878 1347

Information contact : service@bio-circle.ch

1.4 Emergency telephone number

+41 (0)442515151
Schweizerisches Toxikologisches Informationszentrum, 145

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 Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.
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

ALCOHOLS, C8-10, ETHOXYLATED PROPOXYLATED ; CAS No. : 68603-25-8

Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements

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

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P310 Immediately call a POISON CENTER/doctor/....
P332+P313 If skin irritation occurs: Get medical advice/attention.
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/....

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 $\geq 10 \%$

ALCOHOLS, C8-10, ETHOXYLATED PROPOXYLATED ; REACH No. : Polymer ; CAS No. : 68603-25-8

Weight fraction : $\geq 3 - < 5 \%$

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

SULPHAMIDIC ACID ; REACH No. : 01-2119488633-28-XXXX ; EC No. : 226-218-8; CAS No. : 5329-14-6

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

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 Aquatic Chronic 3 ; H412

(2-METHOXYMETHYLETHOXY)PROPANOL ; REACH No. : 01-2119450011-60-XXXX ; EC No. : 252-104-2; CAS No. : 34590-94-8

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

Classification 1272/2008 [CLP] : Substance with a common (EC) occupational exposure limit value.

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

None

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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)

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.

It is recommended to design all work processes always so that the following is excluded: generation/formation of aerosols , Generation/formation of mist

7.2 Conditions for safe storage, including any incompatibilities

Keep/Store only in original container. Protect against : Frost .

Requirements for storage rooms and vessels

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

Occupational exposure limit values

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

Limit value type (country of origin) : KZGW (CH)

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Parameter : E: inhalable fraction
Limit value : 4 mg/m³
Remark : SSc
Version : 14.05.2021
Limit value type (country of origin) : MAK (CH)
Parameter : E: inhalable fraction
Limit value : 2 mg/m³
Remark : SSc
Version : 14.05.2021
Limit value type (country of origin) : STEL (EC)
Limit value : 2 mg/m³
Remark : 15 min average
Version : 20.06.2019
Limit value type (country of origin) : TWA (EC)
Limit value : 1 mg/m³
Version : 20.06.2019

* (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8
Limit value type (country of origin) : KZGW (CH)
Limit value : 50 ppm / 300 mg/m³
Version : 09.03.2021
Limit value type (country of origin) : MAK (CH)
Limit value : 50 ppm / 300 mg/m³
Version : 09.03.2021
Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 308 mg/m³
Remark : Skin
Version : 20.06.2019

DNEL-/PNEC-values

DNEL/DMEL

PHOSPHORIC ACID ; CAS No. : 7664-38-2
Limit value type : DNEL Consumer (local)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 0,36 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 4,57 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 0,1 mg/kg bw/day
Limit value type : DNEL worker (local)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 1 mg/m³
Limit value type : DNEL worker (local)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 2 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 10,7 mg/m³

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Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 37,2 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 121 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 36 mg/kg
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 308 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 283 mg/kg bw/day

* SULPHAMIDIC ACID ; CAS No. : 5329-14-6

Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 17,4 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 5 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 5 mg/kg bw/day
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 10 mg/kg
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 10 mg/kg bw/day

PNEC

* (2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8

Limit value type : PNEC (Aquatic, freshwater)
Limit value : 19 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 1,9 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 70,2 mg/kg
Limit value type : PNEC (Sediment, marine water)
Limit value : 7,02 mg/kg
Limit value type : PNEC (Soil)
Limit value : 2,74 mg/kg dw
Limit value type : PNEC (Sewage treatment plant)
Limit value : 4,168 mg/l

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Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	1,8 mg/l
Limit value type :	PNEC (Aquatic, intermittent release)
Limit value :	0,48 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,18 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	8,36 mg/kg dw
Limit value type :	PNEC (Sediment, marine water)
Limit value :	0,84 mg/kg dw
Limit value type :	PNEC (Soil)
Limit value :	5 mg/kg dw
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	20 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-P2

Remark

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

General information

P362 - Take off contaminated clothing. 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.

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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

Odour

like: Ether

Safety characteristics

Solidifying point :	(1013 hPa)	approx.	-4 °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	
Vapour pressure :	(50 °C)		not relevant	
Density :	(20 °C)	approx.	1,14 g/cm ³	
Solvent separation test :	(20 °C)		not applicable	
Water solubility :	(20 °C)		completely miscible	
pH :	(20 °C)	approx.	0,6	
Cinematic viscosity :	(20 °C)	<	30 mm ² /s	
Relative vapour density :	(20 °C)		not determined	
Maximum VOC content (EC) :			2,6 Weight-%	
Maximum VOC content (Switzerland) :			2,6 Weight-%	
Taxable VOC content (Switzerland) :			2,6 Weight-%	
Corrosive to metals :			May be corrosive to metals.	

9.2 Other information

No further relevant information available. CH : This product is not under the liability for taxation of VOC acc. VOCV (<= 3 % VOC).

SECTION 10: Stability and reactivity

10.1 Reactivity

Violent 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 known hazardous reactions.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Metal, base Aluminium Zinc

10.6 Hazardous decomposition products

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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 (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Exposure route : Oral
Species : Rat
Effective dose : 1530 mg/kg
Parameter : LC50 (ALCOHOLS, C8-10, ETHOXYLATED PROPOXYLATED ; CAS No. : 68603-25-8)
Exposure route : Oral
Species : Rat
Effective dose : 616 mg/kg
* Parameter : LD50 ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)
Exposure route : Oral
Species : Rat
Effective dose : > 5000 mg/kg
Method : OECD 401
Parameter : LD50 (SULPHAMIDIC ACID ; CAS No. : 5329-14-6)
Exposure route : Oral
Species : Mouse
Effective dose : 1312 mg/kg
Parameter : LD50 (SULPHAMIDIC ACID ; CAS No. : 5329-14-6)
Exposure route : Oral
Species : Rat
Effective dose : > 2000 mg/kg
Method : OECD 401

Acute dermal toxicity

Parameter : ATEmix
Exposure route : Dermal
Effective dose : > 2000 mg/kg
Parameter : LD50 (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Exposure route : Dermal
Species : Rabbit
Effective dose : 2740 mg/kg
Parameter : LD50 (ALCOHOLS, C8-10, ETHOXYLATED PROPOXYLATED ; CAS No. : 68603-25-8)
Exposure route : Dermal
Species : Rabbit
Effective dose : 5660 mg/kg
* Parameter : LD50 ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)
Exposure route : Dermal
Species : Rat
Effective dose : > 19020 mg/kg
Method : OECD 402
Parameter : LC50 (SULPHAMIDIC ACID ; CAS No. : 5329-14-6)
Exposure route : Dermal
Species : Rat

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Effective dose : > 2000 mg/kg
Method : OECD 402

Acute inhalation toxicity

Parameter : ATEmix
Exposure route : Inhalation
Effective dose : > 20 mg/l
* Parameter : LC50 ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)
Exposure route : Inhalation
Species : Rat
Effective dose : > 275 ppm
Exposure time : 7 h
Method : OECD 403

Corrosion

Skin corrosion/irritation

Causes severe burns.

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

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

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Parameter : LC50 (ALCOHOLS, C8-10, ETHOXYLATED PROPOXYLATED ; CAS No. : 68603-25-8)

Species : Pimephales promelas (fathead minnow)

Effective dose : 13,3 mg/l

Exposure time : 96 h

* Parameter : LC50 ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)

Species : Poecilia reticulata (Guppy)

Evaluation parameter : Acute (short-term) fish toxicity

Effective dose : > 1000 mg/l

Exposure time : 96 h

Evaluation : Harmless to fish up to the concentration tested.

Method : OECD 203

Parameter : LC50 (SULPHAMIDIC ACID ; CAS No. : 5329-14-6)

Species : Pimephales promelas (fathead minnow)

Evaluation parameter : Acute (short-term) fish toxicity

Effective dose : 70,3 mg/l

Exposure time : 96 h

Method : OECD 203

Acute (short-term) toxicity to crustacea

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 : 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 : EC50 (ALCOHOLS, C8-10, ETHOXYLATED PROPOXYLATED ; CAS No. : 68603-25-8)

Species : Daphnia magna (Big water flea)

Effective dose : 12,3 mg/l

Exposure time : 48 h

* Parameter : EC50 ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)

Species : Daphnia magna (Big water flea)

Evaluation parameter : Acute (short-term) daphnia toxicity

Effective dose : 1919 mg/l

Exposure time : 48 h

Evaluation : Harmless to daphnia up to the tested concentration.

Method : OECD 202

Parameter : EC50 (SULPHAMIDIC ACID ; CAS No. : 5329-14-6)

Species : Daphnia magna (Big water flea)

Evaluation parameter : Acute (short-term) daphnia toxicity

Effective dose : 71,6 mg/l

Exposure time : 48 h

Method : OECD 202

Acute (short-term) toxicity to algae and cyanobacteria

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

* Parameter : EC50 ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)

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Species : Pseudokirchneriella subcapitata
Evaluation parameter : Inhibition of growth rate
Effective dose : > 969 mg/l
Exposure time : 72 h
Evaluation : Harmless to algae up to the concentration tested.
Method : OECD 201
Parameter : EC50 (SULPHAMIDIC ACID ; CAS No. : 5329-14-6)
Species : Desmodesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 48 mg/l
Exposure time : 72 h
Method : OECD 201

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

- * Parameter : NOEC (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Species : Desmodesmus subspicatus
Evaluation parameter : Chronic (long-term) toxicity to aquatic algae and cyanobacteria
Effective dose : 100 mg/l
Exposure time : 72 h
Method : OECD 201
- * Parameter : NOEC ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Inhibition of growth rate
Effective dose : 969 mg/l
Exposure time : 72 h
Evaluation : Harmless to algae up to the concentration tested.
Method : OECD 201

Toxicity to microorganisms

- * Parameter : EC50 (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Species : Toxicity to microorganisms
Effective dose : > 1000 mg/l
Exposure time : 3 h
Method : OECD 209
Parameter : Bacteria toxicity (ALCOHOLS, C8-10, ETHOXYLATED PROPOXYLATED ; CAS No. : 68603-25-8)
Effective dose : 220 - 770 mg/l
Exposure time : 16 h
- * Parameter : EC10 ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)
Species : Pseudomonas putida
Evaluation parameter : Bacteria toxicity
Effective dose : 4168 mg/l
Exposure time : 18 h
Parameter : EC50 (SULPHAMIDIC ACID ; CAS No. : 5329-14-6)
Species : Bacteria toxicity
Effective dose : > 200 mg/l
Exposure time : 3 h

12.2 Persistence and degradability

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.

Biodegradation

Parameter : Biodegradation (ALCOHOLS, C8-10, ETHOXYLATED PROPOXYLATED ; CAS No. : 68603-25-8)
Inoculum : Degree of elimination
Degradation rate : > 70 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 302B

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* Parameter : DOC reduction ((2-METHOXYMETHYLETHOXY)PROPANOL ; CAS No. : 34590-94-8)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : 96 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301F

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

After neutralisation, reduction in toxic effects is observed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Ordinance on the avoidance and disposal of waste (ADWO) SR 814.600.

Before intended use

Waste code according to the lists for the movement of waste

07 06 01S (Aqueous washing liquids and mother liquors)

20 01 29S (Detergents containing hazardous substances)

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 VVEA, 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 · SULPHAMIDIC ACID)

Sea transport (IMDG)

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

Air transport (ICAO-TI / IATA-DGR)

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

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 8

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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
Hazard label(s) :



8

Air transport (ICAO-TI / IATA-DGR)
Class(es) : 8
Special Provisions : E 1
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

Other regulations (EU)

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

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

National regulations

Restrictions of occupation

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

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

Other regulations, restrictions and prohibition regulations

Switzerland

Swiss Maternity Protection Ordinance (SR 822.111.52): Pregnant women and nursing mothers are only allowed to get in contact with or be exposed to this preparation in the course of their work when it is established on the basis of a risk assessment by a specialist, that in context with the activities and the protection measures applied, exposure does no harm to mother and child.

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. Product identifier · 03. Hazardous ingredients · 08. Occupational exposure limit values · 11. Toxicological information · 12. Ecological information · 15. Restrictions on use

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

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 :
Met. Corr. 1 : UN Test, Part III of sub-section 37.4

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Skin Corr. 1B : Calculation method.
Eye Dam. 1 : Calculation method.

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.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

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.
