

# Safety Data Sheet

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



Trade name : Power Cleaner DB  
Revision date : 14.02.2023  
Print date : 07.03.2023

Version (Revision) : 4.1.1 (4.1.0)

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

### 1.1 Product identifier

Power Cleaner DB

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

#### Relevant identified uses

PC 35 - Washing and cleaning products

### 1.3 Details of the supplier of the safety data sheet

#### Supplier

Bio-Circle Surface Technology GmbH

**Street :** Berensweg 200

**Postal code/City :** 33334 Gütersloh

**Telephone :** +49 5241 9443 0

**Telefax :** +49 5241 9443 44

**Information contact :** labor@bio-circle.de

### 1.4 Emergency telephone number

+49 5241 9443 51 during normal office hours  
(Monday to Thursday from 8 am to 4 pm and Friday from 8 am to 3 pm)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

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.

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.

# Safety Data Sheet

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



Trade name : Power Cleaner DB  
Revision date : 14.02.2023  
Print date : 07.03.2023

Version (Revision) : 4.1.1 (4.1.0)

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

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

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)

#### 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

## SECTION 5: Firefighting measures

# Safety Data Sheet

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



Trade name : Power Cleaner DB  
Revision date : 14.02.2023  
Print date : 07.03.2023

Version (Revision) : 4.1.1 (4.1.0)

## 5.1 Extinguishing media

### Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>) Sand Nitrogen Extinguishing blanket

### Unsuitable extinguishing media

Full water jet

## 5.2 Special hazards arising from the substance or mixture

### Hazardous combustion products

In case of fire may be liberated: Carbon monoxide , Carbon dioxide (CO<sub>2</sub>)

## 5.3 Advice for firefighters

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

## 5.4 Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

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

Special danger of slipping by leaking/spilling product.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3 Methods and material for containment and cleaning up

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

### 6.4 Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Keep container tightly closed.

### 7.2 Conditions for safe storage, including any incompatibilities

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

#### Requirements for storage rooms and vessels

P406 - Store in a corrosion resistant/... container with a resistant inner liner.

#### Hints on joint storage

Storage class (TRGS 510) : 8B

### 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) : TRGS 900 ( D )

Parameter : E: inhalable fraction

Limit value : 2 mg/m<sup>3</sup>

# Safety Data Sheet

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



Trade name : Power Cleaner DB  
Revision date : 14.02.2023  
Print date : 07.03.2023

Version (Revision) : 4.1.1 (4.1.0)

Peak limitation : 2(I)  
Remark : Y  
Version : 23.06.2022  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 2 mg/m<sup>3</sup>  
Version : 20.06.2019  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 1 mg/m<sup>3</sup>  
Version : 20.06.2019  
2-BUTOXYETHANOL ; CAS No. : 111-76-2  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 10 ppm / 49 mg/m<sup>3</sup>  
Peak limitation : 2(II)  
Remark : H,Y  
Version : 23.06.2022  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 50 ppm / 246 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 20 ppm / 98 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019

## Biological limit values

2-BUTOXYETHANOL ; CAS No. : 111-76-2  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Butoxyacetic acid (after hydrolysis) / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts  
Limit value : 150 mg/g Creatinine  
Version : 25.02.2022

## DNEL-/PNEC-values

### DNEL/DMEL

PHOSPHORIC ACID ; CAS No. : 7664-38-2  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 1 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 2 mg/m<sup>3</sup>  
2-BUTOXYETHANOL ; CAS No. : 111-76-2  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 246 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 98 mg/m<sup>3</sup>  
SULPHAMIDIC ACID ; CAS No. : 5329-14-6  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term

# Safety Data Sheet

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



Trade name : Power Cleaner DB  
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Version (Revision) : 4.1.1 (4.1.0)

Limit value : 10 mg/kg  
2-BUTOXYETHANOL ; CAS No. : 111-76-2  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 663 mg/m<sup>3</sup>  
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)  
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

# Safety Data Sheet

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



Trade name : Power Cleaner DB  
Revision date : 14.02.2023  
Print date : 07.03.2023

Version (Revision) : 4.1.1 (4.1.0)



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.

### 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

characteristic

#### 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 <sup>3</sup>	
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 <sup>2</sup> /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

CH : This product is not under the liability for taxation of VOC acc. VOCV (<= 3 % VOC).

## SECTION 10: Stability and reactivity

# Safety Data Sheet

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



Trade name : Power Cleaner DB  
Revision date : 14.02.2023  
Print date : 07.03.2023

Version (Revision) : 4.1.1 (4.1.0)

## 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

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 :	LC50 ( ALCOHOLS, C8-10, ETHOXYLATED PROPOXYLATED ; CAS No. : 68603-25-8 )
Exposure route :	Oral
Species :	Rat
Effective dose :	616 mg/kg
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
Parameter :	LD50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1250 - 1490 mg/kg
Method :	OECD 401
Parameter :	LD50 ( PHOSPHORIC ACID ; CAS No. : 7664-38-2 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1530 mg/kg

##### Acute dermal toxicity

Parameter :	ATEmix
Exposure route :	Dermal
Effective dose :	> 2000 mg/kg
Parameter :	LD50 ( ALCOHOLS, C8-10, ETHOXYLATED PROPOXYLATED ; CAS No. : 68603-25-8 )
Exposure route :	Dermal

# Safety Data Sheet

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



Trade name : Power Cleaner DB  
Revision date : 14.02.2023  
Print date : 07.03.2023

Version (Revision) : 4.1.1 (4.1.0)

Species : Rabbit  
Effective dose : 5660 mg/kg  
Parameter : LC50 ( SULPHAMIDIC ACID ; CAS No. : 5329-14-6 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 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  
Effective dose : > 20 mg/l  
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

No further relevant information available.

##### Acid/alkaline reserve

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

##### Serious eye damage/eye irritation

No further relevant information available.

#### 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



# Safety Data Sheet

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



Trade name : Power Cleaner DB  
Revision date : 14.02.2023  
Print date : 07.03.2023

Version (Revision) : 4.1.1 (4.1.0)

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. Causes severe skin burns and eye damage.

## Additional information

Preparation not tested. The statement is derived from the properties of the single components.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

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

Parameter :	LC50 ( 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 ( 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
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

##### 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

##### Acute (short-term) toxicity to crustacea

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 ( 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
Parameter :	EC50 ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	1550 mg/l

# Safety Data Sheet

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



Trade name : Power Cleaner DB  
Revision date : 14.02.2023  
Print date : 07.03.2023

Version (Revision) : 4.1.1 (4.1.0)

Exposure time : 48 h  
Method : DIN 38412 / part 11

### 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

### 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 ( 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

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  
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

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

# Safety Data Sheet

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



Trade name : Power Cleaner DB  
Revision date : 14.02.2023  
Print date : 07.03.2023

Version (Revision) : 4.1.1 (4.1.0)

Effective dose : 220 - 770 mg/l  
Exposure time : 16 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  
Parameter : Biodegradation ( 2-BUTOXYETHANOL ; CAS No. : 111-76-2 )  
Inoculum : Biodegradation  
Degradation rate : 88 %  
Test duration : 20 D

## 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

#### 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 dangerous 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 EEC, specific to the industry and process.

## SECTION 14: Transport information

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Power Cleaner DB  
Revision date : 14.02.2023  
Print date : 07.03.2023

Version (Revision) : 4.1.1 (4.1.0)

**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  
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**

# Safety Data Sheet

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



Trade name : Power Cleaner DB  
Revision date : 14.02.2023  
Print date : 07.03.2023

Version (Revision) : 4.1.1 (4.1.0)

## 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.

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

#### Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

#### Water hazard class

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

## 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

09. Information on basic physical and chemical properties · 11. Endocrine disrupting properties · 12. Endocrine disrupting properties

### 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

# Safety Data Sheet

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



Trade name : Power Cleaner DB  
Revision date : 14.02.2023  
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Version (Revision) : 4.1.1 (4.1.0)

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) 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

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.
H331	Toxic if inhaled.
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.