

Safety Data Sheet

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



Trade name : Power Cleaner 400
Revision date : 05.06.2020
Print date : 05.06.2020

Version (Revision) : 5.0.0 (4.0.0)

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

1.1 Product identifier

Power Cleaner 400

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 (manufacturer/importer/only representative/downstream user/distributor)

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

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

METHANESULPHONIC ACID ; CAS No. : 75-75-2

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.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or

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- P310 shower].
Immediately call a POISON CENTER/doctor/...
- 2.3 Other hazards**
None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

METHANESULPHONIC ACID ; REACH No. : 01-2119491166-34-XXXX ; EC No. : 200-898-6; CAS No. : 75-75-2

Weight fraction : $\geq 10 - < 20$ %

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 STOT SE 3 ; H335

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

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. 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.

Additional information

Full text of H- and EUH-phrases: 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

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.

After 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 severe skin burns and 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

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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

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. Fire fighting water forms corrosive acid solutions. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

P390 - Absorb spillage to prevent material damage.

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

P260 - Do not breathe dust/fume/gas/mist/vapours/spray. 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.

P405 - Store locked up.

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

METHANESULPHONIC ACID ; CAS No. : 75-75-2

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 0,7 mg/m³

Peak limitation : 1(l)

Remark : Y

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Version : 29.03.2019
2-BUTOXYETHANOL ; CAS No. : 111-76-2
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 10 ppm / 49 mg/m³
Peak limitation : 2(II)
Remark : H,Y
Version : 29.03.2019
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

Biological limit values

2-BUTOXYETHANOL ; 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 : 29.03.2019
Limit value type (country of origin) : TRGS 903 (D)
Parameter : Butoxy acetic acid / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts
Limit value : 150 mg/g Kr
Version : 29.03.2019

DNEL-/PNEC-values

DNEL/DMEL

Limit value type : DNEL worker (local) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 246 mg/m³
Limit value type : DNEL worker (systemic) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 98 mg/m³
Limit value type : DNEL worker (systemic) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 663 mg/m³
Limit value type : DNEL worker (systemic) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 75 mg/kg
Limit value type : DNEL worker (systemic) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 89 mg/kg

PNEC

Limit value type : PNEC (Professional) (METHANESULPHONIC ACID ; CAS No. : 75-75-2)
Exposure route : Water (Including sewage plant)
Limit value : 100 mg/l
Limit value type : PNEC (Aquatic, freshwater) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Limit value : 8,8 mg/l

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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 : 34,6 mg/kg
Limit value type : PNEC (Soil) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Limit value : 2,33 mg/kg
Limit value type : PNEC (Sewage treatment plant) (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
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



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)

Filter type: A B - P2

General information

Do not put any product-impregnated cleaning rags into your trouser pockets. P264 - Wash hands thoroughly after handling. P363 - Wash contaminated clothing before reuse. 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

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9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid

Colour : colourless

Odour

characteristic

Safety characteristics

Solidifying point : (1013 hPa) < 0 °C

Initial boiling point and boiling range : (1013 hPa) approx. 98 °C

Flash point : not relevant

Lower explosion limit : not relevant

Upper explosion limit : not relevant

Vapour pressure : (50 °C) not relevant

Density : (20 °C) approx. 1,05 g/cm³

pH : < 1

Maximum VOC content (EC) : 2,6 Wt %

Maximum VOC content (Switzerland) : 2,6 Wt %

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

No information available.

10.2 Chemical stability

The product 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

No information available.

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 toxicological effects

Acute toxicity

Acute oral toxicity

Parameter : LD50 (METHANESULPHONIC ACID ; CAS No. : 75-75-2)

Exposure route : Oral

Species : Rat

Effective dose : 1158 mg/kg

Method : OECD 401

Parameter : LD50 (FATTY ALCOHOL ALCOXYLATE, POLYMER)

Exposure route : Oral

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Species : Rat
Effective dose : > 2000 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 : LD50 (METHANESULPHONIC ACID ; CAS No. : 75-75-2)
Exposure route : Dermal
Species : Rabbit
Effective dose : \geq 1000 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

Acute inhalation toxicity

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.

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 Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

11.3 Other adverse effects

Has degreasing effect on the skin. Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc. Causes severe skin burns and eye damage.

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11.4 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 (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 (METHANESULPHONIC ACID ; CAS No. : 75-75-2)
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	73 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 (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 (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 (METHANESULPHONIC ACID ; CAS No. : 75-75-2)
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	56 mg/l
Exposure time :	96 h
Method :	OECD 203

Acute (short-term) toxicity to crustacea

Parameter :	EC50 (METHANESULPHONIC ACID ; CAS No. : 75-75-2)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	70 mg/l
Exposure time :	48 h
Method :	OECD 202

Chronic (long-term) toxicity to crustacea

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 (FATTY ALCOHOL ALCOXYLATE, POLYMER)
Species :	Daphnia

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Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 0,25 mg/l
Exposure time : 21 D
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 (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Species : Algae
Effective dose : 286 mg/l
Exposure time : 72 h
Method : OECD 201

Acute (short-term) toxicity to aquatic algae and cyanobacteria

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 (METHANESULPHONIC ACID ; CAS No. : 75-75-2)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 7,2 - 20 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : EC50 (FATTY ALCOHOL ALCOXYLATE, POLYMER)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 0,1 - 1 mg/l
Exposure time : 72 h
Parameter : EC50 (FATTY ALCOHOL ALCOXYLATE, POLYMER)
Species : Daphnia
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 0,1 - 1 mg/l
Exposure time : 48 h

Chronic (long-term) algae toxicity

Parameter : NOEC (METHANESULPHONIC ACID ; CAS No. : 75-75-2)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 5,8 mg/l
Exposure time : 96 h
Method : OECD 201

Toxicity to microorganisms

Parameter : Bacteria toxicity (FATTY ALCOHOL ALCOXYLATE, POLYMER)
Species : Bacteria toxicity
Effective dose : > 1000 mg/l
Parameter : EC50 (METHANESULPHONIC ACID ; CAS No. : 75-75-2)
Species : Bacteria toxicity
Effective dose : > 1000 mg/l
Exposure time : 30 min

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (2-BUTOXYETHANOL ; CAS No. : 111-76-2)
Inoculum : Biodegradation

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Degradation rate : 88 %
Test duration : 20 D
Parameter : CO₂ formation (% of the theoretical value) (FATTY ALCOHOL ALCOXYLATE, POLYMER)
Inoculum : Biodegradation
Degradation rate : > 60 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B
Parameter : DOC reduction (METHANESULPHONIC ACID ; CAS No. : 75-75-2)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : 90 - 100 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301A

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

After neutralisation, reduction in toxic effects is observed.

SECTION 13: Disposal considerations

The allocation of waste identity 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 packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

Other disposal recommendations

P501 - Dispose of contents/container to industrial incineration plant.

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.

SECTION 14: Transport information

14.1 UN number

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UN 3265

14.2 UN proper shipping name

Land transport (ADR/RID)

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (METHANESULPHONIC ACID)

Sea transport (IMDG)

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (METHANESULPHONIC ACID)

Air transport (ICAO-TI / IATA-DGR)

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (METHANESULPHONIC ACID)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 8
Classification code : C3
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
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 Transport in bulk according to Annex II of Marpol and the IBC Code

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

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EU legislation

Authorisations and/or restrictions on use

Restrictions on use

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

Restrictions of occupation

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

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

Other regulations (EU)

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

< 5 % non-ionic surfactants

< 5 % anionic surfactants

National regulations

AT: Labelling according to Austrian regulations (Chemikaliengesetz/ChemV).

CH: Chemikalienvorordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

Technische Anleitung Luft (TA-Luft)

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

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.

SECTION 16: Other information

16.1 Indication of changes

03. Hazardous ingredients · 08. Occupational exposure limit values · 14. UN number · 14. UN proper shipping name · 14. Transport hazard class(es) - Land transport (ADR/RID)

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)
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

Safety Data Sheet

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



Trade name : Power Cleaner 400
Revision date : 05.06.2020
Print date : 05.06.2020

Version (Revision) : 5.0.0 (4.0.0)

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]

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.
H335	May cause respiratory irritation.

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.
