

* Powerclean Quick

Date revised: 14.11.2023

8600104210

Version: 10 / GB

Master No. MA-211

Print date: 07.05.2024

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

1.1. Product identifier

Trade name

Powerclean Quick

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

Use of the substance/mixture

Cleaning material/ Detergent

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

BÜFA Cleaning GmbH & Co. KG

August-Hanken-Str. 30

26125 Oldenburg

Telephone no. +49 441 9317 0

Fax no. +49 441 9317 100

Information provided Department product safety / +49 441 9317 108

by / telephone

E-Mail sds-cleaning@buefa.de

1.4. Emergency telephone number

Poison Information Center Goettingen: +49 551 19240

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315

Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008**Hazard pictograms *******Signal word**

Danger

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

P280.2 Wear protective gloves/ eye/ face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

P310 Immediately call a POISON CENTER or doctor.

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Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** Isotridecanol, ethoxylated; 2-[2-(2-butoxyethoxy)ethoxy]ethanol; disodium metasilicate; Isotridecanol, ethoxylated (2-5 EO)

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****Hazardous ingredients *******disodium metasilicate**

CAS No. 10213-79-3
 Registration no. 01-2119449811-37-XXXX
 Concentration \geq 3 < 5 %
 Skin Corr. 1B H314
 STOT SE 3 H335
 Met. Corr. 1 H290
 Eye Dam. 1 H318

ATE oral 1.152 mg/kg

2-(2-butoxyethoxy)ethanol

CAS No. 112-34-5
 EINECS no. 203-961-6
 Registration no. 01-2119475104-44-XXXX
 Concentration \geq 1 < 10 %
 Eye Irrit. 2 H319

2-[2-(2-butoxyethoxy)ethoxy]ethanol

CAS No. 143-22-6
 EINECS no. 205-592-6
 Concentration \geq 1 < 3 %
 Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Dam. 1 H318 \geq 30 %
 Eye Irrit. 2 H319 \geq 20 < 30 %

Isotridecanol, ethoxylated

CAS No. 69011-36-5
 EINECS no. 931-138-8
 Concentration \geq 1 < 3 %
 Eye Dam. 1 H318
 Aquatic Chronic 3 H412

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319 \geq 1 < 10 %
 Eye Dam. 1 H318 > 10 %

Isotridecanol, ethoxylated (2-5 EO)

CAS No. 69011-36-5
 EINECS no. 500-241-6
 Concentration \geq 1 < 3 %
 Eye Dam. 1 H318
 Aquatic Chronic 3 H412
 Acute Tox. 4 H302

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cATpE oral 500 mg/kg

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water.

After eye contact

In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution. Seek medical advice immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Seek medical advice immediately.

4.2. Most important symptoms and effects, both acute and delayed

There is no further relevant information available

4.3. Indication of any immediate medical attention and special treatment needed

There is no further relevant information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Dry powder, Water spray jet

5.2. Special hazards arising from the substance or mixture

If a fire breaks out nearby, pressure build-up and danger of bursting are possible.

5.3. Advice for firefighters

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product. Use personal protective clothing.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Observe the usual precautions for handling chemicals.

7.2. Conditions for safe storage, including any incompatibilities

Emptied containers may contain product residues and therefore must be handled with care. Reuse only

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after appropriate cleaning. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3. Specific end use(s)

No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

2-(2-butoxyethoxy)ethanol

List	EH40			
Type	WEL			
Value	67.5	mg/m ³	10	ppm(V)
Short term exposure limit	101.2	mg/m ³	15	ppm(V)

2-(2-butoxyethoxy)ethanol

List	IOELV			
Type	IOELV			
Value	67,5	mg/m ³	10	ppm(V)
Short term exposure limit	101,2	mg/m ³	15	ppm(V)

8.2. Exposure controls

General protective and hygiene measures

Observe the usual precautions for handling chemicals. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. The following information on personal protective equipment (PPE) is to be understood as a suggestion. The selection of the necessary PPE must be considered by the employer depending on the activities to be carried out and the local conditions. If it is determined during the on-site risk assessment that there is no danger to the employee, there is no need to wear PPE or the scope of the PPE to be used can be adjusted accordingly.

Respiratory protection

Not necessary.

Hand protection

Chemical resistant gloves

Appropriate Material	nitrile		
Material thickness	>=	0,6	mm
Breakthrough time	>	480	min

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

Eye protection

Tightly fitting safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	greenish yellow
Odour	Product specific
Melting point	
Remarks	not determined

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Boiling point

Remarks not determined

Flammability

evaluation not determined

Explosion limits

Remarks not determined

Flash point

Value > 100 °C

Ignition temperature

Remarks not determined

Thermal decomposition

Remarks Not relevant

pH valueValue appr. 10,5
Concentration/H₂O 1 %**Viscosity**Value 15 s
Method DIN 53211 4 mm**Solubility in other solvents**

not determined

Octanol/water partition coefficient (log Pow)

Remarks Not relevant

Vapour pressure

Value mbar

Density

Value appr. 1,02 kg/l

Vapour density

Remarks not determined

Particle characteristics

Remarks irrelevant (liquid)

9.2. Other information**Odour threshold**

Remarks No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

Thermal decomposition

Remarks Not relevant

10.5. Incompatible materials

None known

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10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	>	10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		
Based on available data, the classification criteria are not met.			

Acute oral toxicity (Components)

Isotridecanol, ethoxylated

Reference substance	Isotridecanol, ethoxylated		
Species	rat		
LD50	>	5000	mg/kg
Method	OECD 401		

disodium metasilicate

Reference substance	disodium metasilicate		
Species	rat		
LD50		1152 to 1349	mg/kg

Acute dermal toxicity

Based on available data, the classification criteria are not met.

Acute dermal toxicity (Components)

Isotridecanol, ethoxylated

Reference substance	Isotridecanol, ethoxylated		
LD50	>	5000	mg/kg
Source	Literature value		

disodium metasilicate

Reference substance	disodium metasilicate		
Species	rat		
LD50	>	5000	mg/kg

Acute inhalational toxicity

Based on available data, the classification criteria are not met.

Acute inhalative toxicity (Components)

disodium metasilicate

Reference substance	disodium metasilicate		
Species	rat		
LC50	>	2,06	g/cm ³

Skin corrosion/irritation

evaluation	irritant
The classification criteria are met.	

Serious eye damage/irritation

evaluation	corrosive
The classification criteria are met.	

Sensitization

Based on available data, the classification criteria are not met.

Mutagenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Carcinogenicity

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Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Based on available data, the classification criteria are not met.

Repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity

2-(2-butoxyethoxy)ethanol

Reference substance	2-(2-butoxyethoxy)ethanol		
Species	sun perch		
LC50	1300		mg/l
Duration of exposure	96	h	

2-[2-(2-butoxyethoxy)ethoxy]ethanol

Reference substance	2-[2-(2-butoxyethoxy)ethoxy]ethanol		
Species	golden orfe (Leuciscus idus)		
LC50	> 100		mg/l
Duration of exposure	96	h	
Source	Literature value		

Isotridecanol, ethoxylated

Reference substance	Isotridecanol, ethoxylated		
Species	carp (Cyprinus carpio)		
LC50	> 1	to 10	mg/l
Duration of exposure	96	h	
Method	OECD 203		

disodium metasilicate

Reference substance	disodium metasilicate		
Species	zebra fish (Brachydanio rerio)		
LC50	210		mg/l
Duration of exposure	96	h	

Daphnia toxicity

2-(2-butoxyethoxy)ethanol

Reference substance	2-(2-butoxyethoxy)ethanol		
Species	Daphnia magna		
EC50	> 100		mg/l
Duration of exposure	48	h	

Species	Daphnia magna		
NOEC	112		mg/l
Duration of exposure	14	d	

2-[2-(2-butoxyethoxy)ethoxy]ethanol

Reference substance	2-[2-(2-butoxyethoxy)ethoxy]ethanol		
Species	Daphnia magna		
EC50	> 500		mg/l
Duration of exposure	48	h	

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Method	OECD 202			
Isotridecanol, ethoxylated				
Reference substance	Isotridecanol, ethoxylated			
Species	Daphnia magna			
EC50	> 1	to	10	mg/l
Duration of exposure	48	h		
Method	OECD 202			
disodium metasilicate				
Reference substance	disodium metasilicate			
Species	Daphnia magna			
EC50	1700			mg/l
Duration of exposure	48	h		
Algae toxicity				
2-(2-butoxyethoxy)ethanol				
Reference substance	2-(2-butoxyethoxy)ethanol			
Species	Desmodesmus subspicatus			
ErC50	> 100			mg/l
Duration of exposure	72	h		
Method	OECD 201			
2-[2-(2-butoxyethoxy)ethoxy]ethanol				
Reference substance	2-[2-(2-butoxyethoxy)ethoxy]ethanol			
Species	Pseudokirchneriella subcapitata			
EC50	> 100			mg/l
Duration of exposure	72	h		
Method	OECD 201			
Isotridecanol, ethoxylated				
Reference substance	Isotridecanol, ethoxylated			
Species	Desmodesmus subspicatus			
EC50	> 1	to	10	mg/l
Duration of exposure	72	h		
Method	OECD 201			
disodium metasilicate				
Reference substance	disodium metasilicate			
Species	Scenedesmus subspicatus			
EC50	207			mg/l
Duration of exposure	72	h		
Bacteria toxicity				
2-(2-butoxyethoxy)ethanol				
Reference substance	2-(2-butoxyethoxy)ethanol			
Species	activated sludge			
EC10	> 1995			mg/l
Duration of exposure	30	min		
Source	Literature value			
2-[2-(2-butoxyethoxy)ethoxy]ethanol				
Reference substance	2-[2-(2-butoxyethoxy)ethoxy]ethanol			
Species	activated sludge			
EC10	> 1995			mg/l
Duration of exposure	30	min		
Method	OECD 209			
Isotridecanol, ethoxylated				
Reference substance	Isotridecanol, ethoxylated			
Species	activated sludge			
EC50	140			mg/l
Source	Literature value			

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12.2. Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Biodegradability

2-(2-butoxyethoxy)ethanol

Reference substance	2-(2-butoxyethoxy)ethanol			
Value	89	to	93	%
Duration of test evaluation	28	d		
Method	readily degradable OECD 301 C			

2-[2-(2-butoxyethoxy)ethoxy]ethanol

Reference substance	2-[2-(2-butoxyethoxy)ethoxy]ethanol			
Value	> 60			%
Duration of test evaluation	17	d		
	Readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential

For this subsection there is no ecotoxicological data available on the product as such.

Octanol/water partition coefficient (log Pow)

Remarks Not relevant

12.4. Mobility in soil

For this subsection there is no ecotoxicological data available on the product as such.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

The product contains no PBT substances. The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

For this subsection there is no ecotoxicological data available on the product as such.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.
14.2. UN proper shipping name	-	-
14.3. Transport hazard class(es)	-	-
14.4. Packing group	-	-
Label		
14.5. Environmental hazards	-	

Information for all modes of transport

14.6. Special precautions for user

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information ***

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

Ingredients (Regulation (EC) No 648/2004)

less than 5 %:

polycarboxylates, non-ionic surfactants, anionic surfactants

VOC ***

VOC (EU) 0 %

Other information

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

15.2. Chemical safety assessment

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

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method

Hazard statements listed in Chapter 2/3

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

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H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
 GGVSee: Gefahrgutverordnung See
 IMDG: International Maritime Code for Dangerous Goods
 CAS: Chemical Abstracts Service
 EAK: Europäischer Abfallkatalog
 EINECS: European Inventory of Existing Commercial Chemical Substances
 VOC: Volatile Organic Compound
 GefStoffV: Gefahrstoffverordnung
 TA Luft: Technische Anleitung zur Reinhaltung der Luft
 INCI: International Nomenclature of Cosmetic Ingredients
 n.a.g.: nicht anders genannt
 MAK: Maximale Arbeitsplatz-Konzentration
 AGW: Arbeitsplatzgrenzwert
 BGW: Biologischer Grenzwert
 TRGS: Technische Regeln für Gefahrstoffe
 OEL: Occupational exposure limit
 SUVA: Schweizerische Unfallversicherungsanstalt
 WEL: Workplace exposure limit
 MAC: Maximale aanvaarde concentratie (Netherlands)
 MEL: Maximum exposure limits
 NOEL: No observable effect level
 NOEC: No observable effect concentration
 LD: Lethal dose
 LC: Lethal concentration
 LLC: Lowest lethal concentration
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: Very persistent and very bioaccumulative
 SVHC: Substances of very high concern
 DNEL: Derived no effect level
 DMEL: Derived minimal effect level
 PNEC: Predicted no effect concentration
 PEC: Predicted environmental concentration
 GHS: Globally Harmonized System of classification and Labelling of Chemicals
 REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals
 UN: United Nations
 EG: Europäische Gemeinschaft
 EWG: Europäische Wirtschaftsgemeinschaft
 EU: European Union
 HSNO: Hazardous Substances and New Organisms Act (New Zealand)
 ATE: Acute Toxicity Estimate
 STOT: Specific Target Organ Toxicity

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Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.