

* Powerclean Ultra

Date revised: 09.04.2024

8600100906

Version: 9 / GB

Master No. MA-212

Print date: 25.04.2024

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

1.1. Product identifier

Trade name

Powerclean Ultra

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 Corr. 1B H314

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

H314 Causes severe skin burns and eye damage.

Precautionary statements

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

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

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

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

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

* Powerclean Ultra

Date revised: 09.04.2024

8600100906

Version: 9 / GB

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P310

Immediately call a POISON CENTER or doctor.

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

contains ***

2-aminoethanol; 2-[2-(2-butoxyethoxy)ethoxy]ethanol; Isotridecanol, ethoxylated; Potassium hydroxide

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 *******2-(2-butoxyethoxy)ethanol**

CAS No.	112-34-5				
EINECS no.	203-961-6				
Registration no.	01-2119475104-44-XXXX				
Concentration		>=	10	<	25 %
Eye Irrit. 2	H319				

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

CAS No.	143-22-6				
EINECS no.	205-592-6				
Concentration		>=	3	<	10 %
Eye Dam. 1	H318				

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

Eye Dam. 1	H318	>= 30 %
Eye Irrit. 2	H319	>= 20 < 30 %

2-aminoethanol

CAS No.	141-43-5				
EINECS no.	205-483-3				
Registration no.	02-2119486455-28-XXXX				
Concentration		>=	3	<	5 %
Acute Tox. 4	H312				
Acute Tox. 4	H302				
Skin Corr. 1B	H314				
Acute Tox. 4	H332				
Aquatic Chronic 3	H412				
STOT SE 3	H335				

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

STOT SE 3	H335	>= 5
ATE oral	1.089	mg/kg
cATpE dermal	1.100	mg/kg
cATpE inhalative, Dust/Mist	1,5	mg/l
cATpE inhalative, Vapors	11	mg/l

Isotridecanol, ethoxylated

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

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

* Powerclean Ultra

Date revised: 09.04.2024

8600100906

Version: 9 / GB

Master No. MA-212

Print date: 25.04.2024

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

Potassium hydroxide

CAS No.	1310-58-3
EINECS no.	215-181-3
Registration no.	01-2119487136-33-XXXX
Concentration	>= 1 < 2 %
Acute Tox. 4	H302
Skin Corr. 1A	H314
Met. Corr. 1	H290

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

Eye Irrit. 2	H319	>= 0,5 < 2 %
Skin Corr. 1A	H314	>= 5 %
Skin Corr. 1B	H314	>= 2 < 5 %
Skin Irrit. 2	H315	>= 0,5 < 2 %

ATE oral 333 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. Summon a doctor immediately.

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

Do not induce vomiting. Call in a physician immediately and show him the Safety Data Sheet.

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, Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible. If a fire breaks out nearby, pressure build-up and danger of bursting are possible.

5.3. Advice for firefightersUse self-contained breathing apparatus.
Cool endangered containers with water spray jet.**SECTION 6: Accidental release measures**

* Powerclean Ultra

Date revised: 09.04.2024

8600100906

Version: 9 / GB

Master No. MA-212

Print date: 25.04.2024

6.1. Personal precautions, protective equipment and emergency procedures

Keep people away and stay on the upwind side. Use breathing apparatus if exposed to vapours/dust/aerosol. 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

Provide good ventilation of working area (local exhaust ventilation if necessary). Containers in danger should be cooled with water.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in original packaging. Provide alkali-resistant floor. Store product in closed containers. Do not store together with: Acids, Aluminium
Keep container tightly closed.

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)

2-aminoethanol

List	EH40			
Type	OES			
Value	2.5	mg/m ³	1	ppm(V)
Short term exposure limit	7.6	mg/m ³	3	ppm(V)
Maximum limit value; Skin resorption / sensibilisation: Sk; Pregnancy group; Status: 2011				

Potassium hydroxide

List	EH40			
Type	WEL			
Short term exposure limit	2	mg/m ³		
Maximum limit value; Skin resorption / sensibilisation: Pregnancy group: Status: 2005				

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

* Powerclean Ultra

Date revised: 09.04.2024

8600100906

Version: 9 / GB

Master No. MA-212

Print date: 25.04.2024

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

Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, Filter B

Hand protection

Chemical resistant gloves

Appropriate Material	nitrile		
Material thickness	>=	0,7	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

Alkali-resistant protective clothing

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		
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 value			
Value	appr.	11	
Concentration/H ₂ O		1	%
Viscosity			
Value		20	s
Method		DIN 53211 4 mm	
Solubility in other solvents			
		not determined	
Octanol/water partition coefficient (log Pow)			
Remarks	Not relevant		

* Powerclean Ultra

Date revised: 09.04.2024

8600100906

Version: 9 / GB

Master No. MA-212

Print date: 25.04.2024

Vapour pressure

Remarks not determined

Density

Value appr. 1,00 kg/l

Vapour density

Remarks not determined

Particle characteristics

Remarks irrelevant (liquid)

9.2. Other information**Odour threshold**

Remarks No data available

Solubility in water

Remarks miscible

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

Corrodes aluminium.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Strong exothermic reaction with acids.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

Thermal decomposition

Remarks Not relevant

10.5. Incompatible materials

Strong exothermic reaction with acids. Reactions with metals, with evolution of hydrogen.

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

2-aminoethanol

Reference substance 2-aminoethanol
 Species rat
 LD50 1089 mg/kg

Potassium hydroxide

* Powerclean Ultra

Date revised: 09.04.2024

8600100906

Version: 9 / GB

Master No. MA-212

Print date: 25.04.2024

Reference substance	potassium hydroxide ...%	
ATE	333	mg/kg

Acute dermal 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 dermal toxicity (Components)**Isotridecanol, ethoxylated**

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

Acute inhalational toxicity

ATE	> 100	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	> 20	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	
Based on available data, the classification criteria are not met.		

Skin corrosion/irritation

evaluation	corrosive
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.

Sensitization (Components)**2-aminoethanol**

May cause sensitization by skin contact.

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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**

* Powerclean Ultra

Date revised: 09.04.2024

8600100906

Version: 9 / GB

Master No. MA-212

Print date: 25.04.2024

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		

2-aminoethanol

Reference substance	2-aminoethanol		
Species	carp (Cyprinus carpio)		
LC50	349		mg/l
Duration of exposure	96	h	
Species	2-aminoethanol Oryzias latipes		
NOEC	1,2		mg/l
Duration of exposure	30	d	
Species	2-aminoethanol Oryzias latipes		
LOEC	3,6		mg/l
Duration of exposure	30	d	

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	2-(2-butoxyethoxy)ethanol 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	
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		

2-aminoethanol

Reference substance	2-aminoethanol		
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* Powerclean Ultra

Date revised: 09.04.2024

8600100906

Version: 9 / GB

Master No. MA-212

Print date: 25.04.2024

Species	Daphnia magna		
EC50	65		mg/l
Duration of exposure	48	h	
Species	2-aminoethanol		
Species	Daphnia magna		
NOEC	0,85		mg/l
Duration of exposure	21	d	
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		
2-aminoethanol			
Reference substance	2-aminoethanol		
Species	Pseudokirchneriella subcapitata		
ErC50	2,5		mg/l
Duration of exposure	72	h	
Species	2-aminoethanol		
Species	Pseudokirchneriella subcapitata		
NOEC	1		mg/l
Duration of exposure	72	h	
Method	OECD 201		
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		
2-aminoethanol			

* Powerclean Ultra

Date revised: 09.04.2024

8600100906

Version: 9 / GB

Master No. MA-212

Print date: 25.04.2024

Reference substance	2-aminoethanol	
Species	activated sludge	
EC50	> 1000	mg/l

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.Do not discharge product unmonitored into the environment.

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	
Method	Readily biodegradable (according to OECD criteria)	

2-aminoethanol

Reference substance	2-aminoethanol	
Value	> 90	%
Duration of test evaluation	21 d	
Method	readily degradable OECD 301 A	

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.

Behaviour in sewers [waste treatment plants]

The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

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.

* Powerclean Ultra

Date revised: 09.04.2024

8600100906

Version: 9 / GB



Master No. MA-212

Print date: 25.04.2024

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee
14.1. UN number	1719	1719
14.2. UN proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide, 2-aminoethanol)	CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide, 2-aminoethanol)
14.3. Transport hazard class(es)	8	8
14.4. Packing group	III	III
Label		
14.5. Environmental hazards	-	-
Limited Quantity	5 l	5 l
Transport category	3	
Tunnel restriction code	E	
Hazard id. no.	80	
EmS		F-A, S-B

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 %:**

non-ionic surfactants, polycarboxylates, anionic surfactants

Further ingredients

* Powerclean Ultra

Date revised: 09.04.2024

8600100906

Version: 9 / GB

Master No. MA-212

Print date: 25.04.2024

bronopol (INN)

VOC ***

VOC (EU) 3,79 %

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 Corr. 1B	H314	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.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
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. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B
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

*** Powerclean Ultra**

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8600100906

Version: 9 / GB

Master No. MA-212

Print date: 25.04.2024

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

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.