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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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UFI: E800-P0U8-F00Q-TAGT

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

disinfectants. Disinfection and intensive cleaning of instruments, concentrate.
Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

Company name: DR.H.STAMM GmbH Chemische Fabrik
Street: Heinrichstr. 3 – 4
Place: D-12207 Berlin, GERMANY
Telephone: +49 30 76880-280
E-mail: info@dr-stamm.de
Internet: www.dr-stamm.de
Responsible Department: sdb@dr-stamm.de, Tel.: +49 30 76880-258

1.4. Emergency telephone number:

24-hours-emergency: Giftnotruf Berlin: +49 30 30686700 (german, english)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Acute Tox. 4; H302
Skin Corr. 1B; H314
Eye Dam. 1; H318
Resp. Sens. 1; H334
Skin Sens. 1; H317
Repr. 2; H361fd
STOT SE 3; H336
Aquatic Acute 1; H400
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

Butane-1,4-diol
Bis(3-aminopropyl)dodecylamine
Didecylmethylpoly(oxyethyl)ammoniumpropionate
Lactic acid
piperazine

Signal word: Danger**Pictograms:****Hazard statements**

H302 Harmful if swallowed.

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H314	Causes severe skin burns and eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P280	Wear protective gloves/protective clothing and eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER/doctor.

Special labelling of certain mixtures

Read attached instructions before use.

2.3. Other hazards

The mixture does not contain substances $\geq 0.1\%$ of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

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

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Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
7732-18-5	Water			20-30 %
	231-791-2			
110-63-4	Butane-1,4-diol			15-25 %
	203-786-5		01-2119471849-20	
	Acute Tox. 4, STOT SE 3; H302 H336			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			10-20 %
	203-961-6		01-2119475104-44	
	Eye Irrit. 2; H319			
2372-82-9	Bis(3-aminopropyl)dodecylamine			9,9 %
	219-145-8		01-2119980592-29	
	Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H301 H314 H318 H373 H400 H410			
94667-33-1	Didecylmethylpoly(oxyethyl)ammoniumpropionate			8,4 %
	619-057-3		01-2119950327-36	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H400 H410			
79-33-4	Lacitic acid			2-7 %
	201-196-2		01-2119474164-39	
	Skin Corr. 1C, Eye Dam. 1; H314 H318			
68920-66-1	C16-C18 Fatty alcohol, ethoxylated			2-7 %
	-		*	
	Eye Irrit. 2; H319			
110-85-0	piperazine			<5 %
	203-808-3	612-057-01-1	01-2119480384-35	
	Flam. Sol. 1, Repr. 2, Skin Corr. 1B, Eye Dam. 1, Resp. Sens. 1, Skin Sens. 1; H228 H361fd H314 H318 H334 H317			
60-00-4	Ethylenediaminetetraacetic acid			1-5 %
	200-449-4		01-2119486399-18	
	Acute Tox. 4, Eye Irrit. 2, STOT RE 2; H332 H319 H373			
68515-73-1	C8-10 Alkyl polyglycosides			1-5 %
	-		01-2119488530-36	
	Eye Dam. 1; H318			

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
110-63-4	203-786-5	Butane-1,4-diol	15-25 %
		inhalation: LC50 = >15 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 1525 mg/kg	
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	10-20 %
		dermal: LD50 = 2764 mg/kg; oral: LD50 = 2410 mg/kg	
2372-82-9	219-145-8	Bis(3-aminopropyl)dodecylamine	9,9 %
		dermal: LD50 = >600 mg/kg; oral: LD50 = 243,6 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1	
94667-33-1	619-057-3	Didecylmethylpoly(oxyethyl)ammoniumpropionate	8,4 %
		oral: LD50 = 1.157 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1	
79-33-4	201-196-2	Lacitic acid	2-7 %
		inhalation: LC50 = >7.94 mg/l (vapours); dermal: LD50 = 2000 mg/kg; oral: LD50 = 3730 mg/kg	
68920-66-1	-	C16-C18 Fatty alcohol, ethoxylated	2-7 %
		oral: LD50 = >2000 mg/kg	
110-85-0	203-808-3	piperazine	<5 %
		dermal: LD50 = 8300 mg/kg; oral: LD50 = 2600 mg/kg	
60-00-4	200-449-4	Ethylenediaminetetraacetic acid	1-5 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >1-5 mg/kg; oral: LD50 = 4500 mg/kg	
68515-73-1	-	C8-10 Alkyl polyglycosides	1-5 %
		oral: LD50 = >5000 mg/kg	

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

disinfectants, 5 % - < 15 % non-ionic surfactants, < 5 % EDTA and salts thereof.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

After inhalation

In case of inhalation of aerosols/spray mist/splash spots: Consult physician. Provide fresh air.

After contact with skin

After contact with skin, wash immediately with: Water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink large quantities of water. Do NOT induce vomiting. Consult physician.

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

No known symptoms to date.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media

Water. Foam. Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixtureIn case of fire may be liberated: Nitrogen oxides (NO_x). Carbon dioxide (CO₂).**5.3. Advice for firefighters**

Special protective equipment for firefighters Use appropriate respiratory protection. In case of fire and/or explosion do not breathe fumes.

Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Keep away from unprotected people. Keep upwind. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up**Other information**

Clean contaminated articles and floor according to the environmental legislation. Treat the recovered material as prescribed in the section on waste disposal. Suitable material for taking up: Sand Universal binding agent. earth. Sawdust.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

It is recommended to design all work processes always so that the following is excluded: skin contact. Eye contact.

Advice on protection against fire and explosion

The product is not: Oxidizing. Flammable. Explosive.

Advice on general occupational hygieneDo not eat, drink, smoke or sneeze at the workplace.
Take off immediately all contaminated clothing.
Wash hands before breaks and after work.**Further information on handling**

Use only in well-ventilated areas.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**Store only in original container.
Keep away from food, drink and animal feedingstuffs.**7.3. Specific end use(s)**

Disinfectant

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	WEL
		15	101.2		STEL (15 min)	WEL
110-85-0	Piperazine	-	0.1		TWA (8 h)	WEL
		-	0.3		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type	Exposure route	Effect	Value	
110-63-4	Butane-1,4-diol			
Worker DNEL, acute	inhalation	local	958 mg/m ³	
Worker DNEL, long-term	dermal	systemic	19 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	136 mg/m ³	
Consumer DNEL, long-term	oral	systemic	8 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	29 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	8 mg/kg bw/day	
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			
Worker DNEL, long-term	inhalation	local	67,5 mg/m ³	
2372-82-9	Bis(3-aminopropyl)dodecylamine			
Worker DNEL, long-term	dermal	systemic	0,91 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	2,35 mg/m ³	
Consumer DNEL, long-term	inhalation	systemic	0,7 mg/m ³	
110-85-0	piperazine			
Worker DNEL, long-term	inhalation	systemic	0,1 mg/m ³	
Worker DNEL, acute	inhalation	systemic	0,3 mg/m ³	
60-00-4	Ethylenediaminetetraacetic acid			
Worker DNEL, long-term	inhalation	systemic	1,5 mg/m ³	
68515-73-1	C8-10 Alkyl polyglycosides			
Worker DNEL, long-term	dermal	systemic	595000 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	420 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	357000 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	35,7 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	124 mg/m ³	

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PNEC values

CAS No	Substance	
Environmental compartment		Value
110-63-4	Butane-1,4-diol	
Marine water (intermittent releases)		8,13 mg/l
Freshwater sediment		3,61 mg/kg
Marine sediment		0,361 mg/kg
2372-82-9	Bis(3-aminopropyl)dodecylamine	
Freshwater		0,001 mg/l
Freshwater sediment		8,5 mg/kg
Marine sediment		0,85 mg/kg
Soil		45,34 mg/kg
94667-33-1	Didecylmethylpoly(oxyethyl)ammoniumpropionate	
Freshwater		0,001 mg/l
Freshwater sediment		5,3 mg/kg
Soil		2,83 mg/kg
79-33-4	Lacitic acid	
Freshwater		1,3 mg/l
110-85-0	piperazine	
Freshwater		0,1 mg/l
Marine water		0,01 mg/l
Freshwater sediment		1,8 mg/kg
Marine sediment		0,18 mg/kg
60-00-4	Ethylenediaminetetraacetic acid	
Freshwater		2,2 mg/l
Marine water		0,22 mg/l
Soil		0,72 mg/kg
68515-73-1	C8-10 Alkyl polyglycosides	
Freshwater		0,175 mg/l
Marine water		0,0176 mg/l
Freshwater sediment		1516 mg/kg
Marine sediment		0,152 mg/kg
Soil		0,654 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Refer to chapter 7. No further action is necessary.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety goggles/face protection.

Hand protection

Suitable material:

PE (polyethylene). Layer thickness: 0,5 mm penetration time (maximum wearing period): >=8h

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CR (polychloroprenes, Chloroprene rubber). 0,5 mm penetration time (maximum wearing period): >=8h

NBR (Nitrile rubber). 0,35 mm penetration time (maximum wearing period): >=8h

Butyl rubber. FKM (Fluoroelastomer (Viton)). 0,5 mm penetration time (maximum wearing period): >=8h

Breakthrough times and swelling properties of the material must be taken into consideration.

Recommended protective gloves brand: Camapren 722, Manufacturer: KCL, Or comparable articles from other companies.

Skin protection

Lab apron.

Respiratory protection

Respiratory protection not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	clear yellow
Odour:	characteristic
Odour threshold:	not determined

Test method

Melting point/freezing point:	-20 °C	
Boiling point or initial boiling point and boiling range:	100 °C	
Flammability:	non-flammable	
Lower explosion limits:	not applicable	
Upper explosion limits:	not applicable	
Flash point:		No flash point up to 100 °C.
Auto-ignition temperature:	not determined	
Decomposition temperature:	not determined	
pH-Value (at 20 °C):	9,8 (conc.), 9,4 (1 %)	DGF H-III 1
Viscosity / kinematic:	not determined	
Water solubility: (at 20 °C)	complete miscible	
Solubility in other solvents		
not determined		
Dissolution rate:	not determined	
Partition coefficient n-octanol/water:	not determined	
Dispersion stability:	not determined	
Vapour pressure:	not determined	
Vapour pressure:	not determined	
Density (at 20 °C):	1,02 g/cm³	DIN 12791
Bulk density:	not applicable	
Relative vapour density:	not determined	
Particle characteristics:	not applicable	

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

not Explosive.

Sustaining combustion:

No data available

Oxidizing properties

not oxidizing.

Other safety characteristics

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Evaporation rate:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Viscosity / dynamic:	not determined
Flow time:	not determined

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

None, in case of proper use.

10.2. Chemical stability

The product is chemically stable under normal ambient conditions.

10.3. Possibility of hazardous reactions

None, in case of proper use.

10.4. Conditions to avoid

Thermal decomposition can lead to the escape of irritating gases and vapors.

10.5. Incompatible materials

acid, concentrated.

10.6. Hazardous decomposition products

None, in case of proper use.

Further information

Do not mix with other products.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Harmful if swallowed.

Acute toxicity, oral LD50: 2000-5000 mg/kg Rat

ATEmix calculated

ATE (oral) 1306 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
110-63-4	Butane-1,4-diol				
	oral	LD50 mg/kg 1525	rat		OECD 40
	dermal	LD50 mg/kg >2000	rabbit		
	inhalation (4 h) dust/mist	LC50 >15 mg/l			OECD 443
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether				
	oral	LD50 mg/kg 2410	mouse		OECD 401
	dermal	LD50 mg/kg 2764	rabbit		OECD 402
2372-82-9	Bis(3-aminopropyl)dodecylamine				
	oral	LD50 mg/kg 243,6	rat		OECD 401
	dermal	LD50 mg/kg >600	rat		OECD 402
94667-33-1	Didecylmethylpoly(oxyethyl)ammoniumpropionate				
	oral	LD50 mg/kg 1.157			OECD 401
79-33-4	Lacitic acid				
	oral	LD50 mg/kg 3730	rat		
	dermal	LD50 mg/kg 2000	rabbit		
	inhalation (4 h) vapour	LC50 mg/l >7.94	rat		
68920-66-1	C16-C18 Fatty alcohol, ethoxylated				
	oral	LD50 mg/kg >2000	Ratte		
110-85-0	piperazine				
	oral	LD50 mg/kg 2600	rat		OECD 401
	dermal	LD50 mg/kg 8300	rabbit		OECD 402
60-00-4	Ethylenediaminetetraacetic acid				
	oral	LD50 mg/kg 4500	rat		OECD 401
	dermal	LD50 mg/kg >1-5	rat		OECD 412
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
68515-73-1	C8-10 Alkyl polyglycosides				
	oral	LD50 mg/kg >5000			

Irritation and corrosivity

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Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation: Causes serious eye damage.

Irritant effect on the skin: irritant. Irritant effect on the eye: corrosive.

Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (piperazine)

May cause an allergic skin reaction. (piperazine)

May cause sensitization by inhalation and skin contact.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility. Suspected of damaging the unborn child. (piperazine)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

STOT-single exposure

May cause drowsiness or dizziness. (Butane-1,4-diol)

STOT-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**Other information**

The mixture does not contain substances $\geq 0.1\%$ of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

SECTION 12: Ecological information**12.1. Toxicity**

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
110-63-4	Butane-1,4-diol					
	Acute fish toxicity	LC50 mg/l	>30000	96 h	Pimephales promelas	OECD 203
	Acute algae toxicity	ErC50 mg/l	>500		Desmodesmus supspicatus	DIN 38412
	Acute crustacea toxicity	EC50	813 mg/l	48 h	Daphnia magna	OECD 202
	Crustacea toxicity	NOEC	>85 mg/l	21 d	Daphnia magna	OECD 211
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether					
	Acute fish toxicity	LC50 mg/l	1300	96 h	Lepomis macrochirus	OECD 203
	Acute algae toxicity	ErC50 mg/l	1101	72 h	Pseudokirchneriella subcapitata	OECD 201
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna	EU method C.2
	Algae toxicity	NOEC mg/l	>100	4 d	Desmodesmus supspicatus	OECD 201
2372-82-9	Bis(3-aminopropyl)dodecylamine					
	Acute fish toxicity	LC50 mg/l	0,68	96 h	Oncorhynchus mykiss	OECD 203
	Acute algae toxicity	ErC50 mg/l	0,054	96 h	Pseudokirchneriella subcapitata	US-EPA
	Acute crustacea toxicity	EC50 mg/l	0,073	48 h	Daphnia magna	US-EPA
	Algae toxicity	NOEC mg/l	1000	21 d		OECD 208
94667-33-1	Didecylmethylpoly(oxyethyl)ammoniumpropionate					
	Acute fish toxicity	LC50 mg/l	0,89	96 h	Cyprinus carpio	OECD 203
	Acute algae toxicity	ErC50 mg/l	0,34	72 h	Scenedesmus subspicatus	Static test
	Acute crustacea toxicity	EC50	0,1 mg/l	48 h	Daphnia magna	OECD 202
79-33-4	Lacitic acid					
	Acute fish toxicity	LC50	130 mg/l	96 h	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50 mg/l	>2800	72 h	Pseudokirchnerella subcapitata	
	Acute crustacea toxicity	EC50	130 mg/l	48 h	Daphnia magna	
68920-66-1	C16-C18 Fatty alcohol, ethoxylated					
	Acute fish toxicity	LC50	30 mg/l	96 h		(CESIO 10/2015 (Env. class.))
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna	(CESIO 10/2015 (Env. class.))
110-85-0	piperazine					
	Acute fish toxicity	LC50 mg/l	>1800	96 h	Poecilia reticulata	Richtlinie 84/449/EWG, C.1, semistatisch
	Acute crustacea toxicity	EC50	21 mg/l	48 h	Daphnia magna	OECD 202
	Algae toxicity	NOEC mg/l	>1000	72 d	Selenastrum capricornutum	OECD 201
60-00-4	Ethylenediaminetetraacetic acid					

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	Acute fish toxicity	LC50 mg/l	>100	96 h	Lepomis macrochirus		
	Acute algae toxicity	ErC50 mg/l	>300	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50	140 mg/l	48 h	Daphnia magna		DIN 38412
	Fish toxicity	NOEC mg/l	37,2	35 d	Danio rerio		OECD 210
	Crustacea toxicity	NOEC	25 mg/l	21 d	Daphnia magna		OECD 211
	Acute bacteria toxicity	EC50 mg/l ()	>500		Belebtschlamm		OECD 209
68515-73-1	C8-10 Alkyl polyglycosides						
	Acute fish toxicity	LC50 mg/l	>100	96 h	Brachydanio rerio		ISO 7346/2
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna		OECD 202
	Fish toxicity	NOEC mg/l	>1-10		Brachydanio rerio		OECD 204
	Crustacea toxicity	NOEC mg/l	>1-10		Daphnia magna		OECD 202

12.2. Persistence and degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
110-63-4	Butane-1,4-diol			
	OECD 301C	74-100	14	
	Leicht biologisch abbaubar			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			
	OECD 301 C	85 %	28	
	leicht biologisch abbaubar			
2372-82-9	Bis(3-aminopropyl)dodecylamine			
	OECD 303A	96 %	15	
94667-33-1	Didecylmethylpoly(oxyethyl)ammoniumpropionate			
	OECD 302B	57 %	28	
68920-66-1	C16-C18 Fatty alcohol, ethoxylated			
	OECD 301D	>70 %	28	
	Leicht biologisch abbaubar			
110-85-0	piperazine			
	(OECD-Richtlinie 301 F) (aerob, Belebtschlamm, kom	65 %		

12.3. Bioaccumulative potential

On the basis of existing data about disposal/decomposition and bio-accumulation potential, long term environmental damage is unlikely.

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
110-63-4	Butane-1,4-diol	-0,88
2372-82-9	Bis(3-aminopropyl)dodecylamine	0,34
79-33-4	Lactic acid	-0,62

BCF

CAS No	Chemical name	BCF	Species	Source
110-63-4	Butane-1,4-diol	3,16 L/kg		
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	<100		
110-85-0	piperazine	<3,9	Cyprinus carpio	OECD 305C

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.
not applicable

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 data available

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

List of Wastes Code - residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

List of Wastes Code - used product

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing hazardous substances; hazardous waste

Contaminated packaging

Completely emptied packings can be re-cycled.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number or ID number:**

UN1903

14.2. UN proper shipping name:

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Polyamines, Didecylmethyllummoniumpropionate, solution)

14.3. Transport hazard class(es):

8

14.4. Packing group:

III

Hazard label:

8

Classification code:

C9

Special Provisions:

274

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Limited quantity: 5 L
 Transport category: 3
 Hazard No: 80
 Tunnel restriction code: E

Marine transport (IMDG)

14.1. UN number or ID number: UN1903
14.2. UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (POLYAMINES, DIDECYLMETHYLAMMONIUMPROPIONATE, SOLUTION)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8
 Marine pollutant: no
 Special Provisions: 223, 274
 Limited quantity: 5 L
 EmS: F-A, S-B

Other applicable information (marine transport)

Excepted Quantity: E1

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN1903
14.2. UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (POLYAMINES, DIDECYLMETHYLAMMONIUMPROPIONATE, SOLUTION)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
 Hazard label: 8
 Special Provisions: A3 A803
 Limited quantity Passenger: 1 L
 IATA-packing instructions - Passenger: 852
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 856
 IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

Excepted Quantity: E1

Passenger-LQ: Y841

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No special precautionary measures are necessary.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 55, Entry 75

Directive 2004/42/EC on VOC in 35 % (357 g/l)
 paints and varnishes:

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

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15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

Data changed from previous versions: 1.4., 2.3., 7.3., 9.1., 9.2., 11.2., 14.5, 14.6., 14.7., 15.2.

Abbreviations and acronyms

Flam. Sol: Flammable solids

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Resp. Sens: Respiratory sensitisation

Skin Sens: Skin sensitisation

Repr: Reproductive toxicity

STOT SE: Specific target organ toxicity - single exposure

STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Resp. Sens. 1; H334	Calculation method
Skin Sens. 1; H317	Calculation method
Repr. 2; H361fd	Calculation method
STOT SE 3; H336	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H228	Flammable solid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H336	May cause drowsiness or dizziness.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Further Information

Training instructions: Follow the instructions for use on the label.

The information is based on the present level of our knowledge. It does not, however, give assurance of

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product properties and establishes no contract legal rights.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	STAMMOPUR 24	PW	20	0	8a, 9, 13	8a	0	121	

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)