

**STAMMOPUR DR 8**

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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: K300-P0FF-U00Q-GNAP

**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: 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**

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

**number:****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  
N,N-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/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.

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

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#### Hazardous components

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	N,N-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	Lactic acid			2-7 %
	201-196-2		01-2119474164-39	
	Skin Corr. 1C, Eye Dam. 1; H314 H318			
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			
68920-66-1	C16-C18 Fatty alcohol, ethoxylated			2-7 %
	-		*	
	Eye Irrit. 2; H319			
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	N,N-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	
110-85-0	203-808-3	piperazine	<5 %
		dermal: LD50 = 8300 mg/kg; oral: LD50 = 2600 mg/kg	
68920-66-1	-	C16-C18 Fatty alcohol, ethoxylated	2-7 %
		oral: LD50 = >2000 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 % - &lt; 15 % non-ionic surfactants, &lt; 5 % EDTA and salts thereof.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Take off immediately all contaminated clothing.

**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 symptoms known up to now.

**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 mixture**Can be released in case of fire: Nitrogen oxides (NO<sub>x</sub>). Carbon dioxide (CO<sub>2</sub>).**5.3. Advice for firefighters**

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

**Additional information**

Material is not combustible. Extinguishing materials should be selected according to the surrounding area.

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

Keep away from unprotected people. Keep upwind. Wear respiratory protection when in the presence of vapour, dust, and aerosols. Guide people to safety.

**6.2. Environmental precautions**

Do not empty into drains or the aquatic environment. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

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

Clean contaminated articles and floor according to the environmental legislation. Treat the assimilated material according to the section on waste disposal. Suitable absorbing material: 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 organise all working processes in order to exclude the following: skin contact. Eye contact.

**Advice on protection against fire and explosion**

Product is not: Oxidizing. Flammable. Explosive.

**Advice on general occupational hygiene**

Do not eat, drink, smoke or sneeze at the workplace.

Take off immediately all contaminated clothing.

Wash hands before breaks and at the end of 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.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	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 <sup>3</sup>
		Worker DNEL, long-term	dermal	systemic	19 mg/kg bw/day
		Worker DNEL, long-term	inhalation	systemic	136 mg/m <sup>3</sup>
		Consumer DNEL, long-term	oral	systemic	8 mg/kg bw/day
		Consumer DNEL, long-term	inhalation	systemic	29 mg/m <sup>3</sup>
		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 <sup>3</sup>
2372-82-9	N,N-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 <sup>3</sup>
		Consumer DNEL, long-term	inhalation	systemic	0,7 mg/m <sup>3</sup>
110-85-0	piperazine	Worker DNEL, long-term	inhalation	systemic	0,1 mg/m <sup>3</sup>
		Worker DNEL, acute	inhalation	systemic	0,3 mg/m <sup>3</sup>
60-00-4	Ethylenediaminetetraacetic acid	Worker DNEL, long-term	inhalation	systemic	1,5 mg/m <sup>3</sup>
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 <sup>3</sup>
		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 <sup>3</sup>

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#### PNEC values

CAS No	Substance	Value
Environmental compartment		
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	N,N-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.

Do not eat, drink, smoke or sneeze at the workplace. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of work.

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear eye/face protection.

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**Hand protection**

Suitable material:

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

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

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

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

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

Recommended protective gloves brand: Camapren 722, Manufacturer: KCL, or comparable makes 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

	Test method
Melting point/freezing point:	-20 °C
Boiling point or initial boiling point and boiling range:	100 °C
Flash point:	non-flammable
pH-Value (at 20 °C):	9,8 (conc.), 9,4 (1 %) DGF H-III 1
Water solubility: (at 20 °C)	complete miscible
Density (at 20 °C):	1,02 g/cm <sup>3</sup> DIN 12791

**9.2. Other information****Information with regard to physical hazard classes**

Explosive properties

not Explosive.

Oxidizing properties

not oxidizing.

**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.



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**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) 1306,2 mg/kg

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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	N,N-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	Lactic acid				
	oral	LD50 mg/kg	3730	rat	
	dermal	LD50 mg/kg	2000	rabbit	
	inhalation (4 h) vapour	LC50 mg/l	>7.94	rat	
110-85-0	piperazine				
	oral	LD50 mg/kg	2600	rat	OECD 401
	dermal	LD50 mg/kg	8300	rabbit	OECD 402
68920-66-1	C16-C18 Fatty alcohol, ethoxylated				
	oral	LD50 mg/kg	>2000	Ratte	
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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Causes severe skin burns and eye damage.  
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.

**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 >30000 mg/l	96 h	Pimephales promelas		OECD 203
	Acute algae toxicity	ErC50 >500 mg/l		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 1300 mg/l	96 h	Lepomis macrochirus		OECD 203
	Acute algae toxicity	ErC50 1101 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna		EU method C.2
	Algae toxicity	NOEC >100 mg/l	4 d	Desmodesmus supspicatus		OECD 201
2372-82-9	N,N-Bis(3-aminopropyl)dodecylamine					
	Acute fish toxicity	LC50 0,68 mg/l	96 h	Oncorhynchus mykiss		OECD 203
	Acute algae toxicity	ErC50 0,054 mg/l	96 h	Pseudokirchneriella subcapitata		US-EPA
	Acute crustacea toxicity	EC50 0,073 mg/l	48 h	Daphnia magna		US-EPA
	Algae toxicity	NOEC 1000 mg/l	21 d			OECD 208
94667-33-1	Didecylmethylpoly(oxyethyl)ammoniumpropionate					
	Acute fish toxicity	LC50 0,89 mg/l	96 h	Cyprinus carpio		OECD 203
	Acute algae toxicity	ErC50 0,34 mg/l	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 >2800 mg/l	72 h	Pseudokirchnerella subcapitata		
	Acute crustacea toxicity	EC50 130 mg/l	48 h	Daphnia magna		
110-85-0	piperazine					
	Acute fish toxicity	LC50 >1800 mg/l	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 >1000 mg/l	72 d	Selenastrum capricornutum		OECD 201
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 >1000 mg/l	48 h	Daphnia magna		(CESIO 10/2015 (Env. class.))
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	N,N-Bis(3-aminopropyl)dodecylamine	OECD 303A	96 %	15	
94667-33-1	Didecylmethylpoly(oxyethyl)ammoniumpropionate	OECD 302B	57 %	28	
110-85-0	piperazine	(OECD-Richtlinie 301 F) (aerob, Belebtschlamm, kom	65 %		
68920-66-1	C16-C18 Fatty alcohol, ethoxylated	OECD 301D	>70 %	28	
	Leicht biologisch abbaubar				

#### 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	N,N-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)**

<b>14.1. UN number or ID number:</b>	UN1903
<b>14.2. UN proper shipping name:</b>	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Polyamines, Didecylmethylammoniumpropionate, solution)
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	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

**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

2004/42/EC (VOC): 35 % (357 g/l)

**National regulatory information**

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

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

Butane-1,4-diol

Lacitic acid

piperazine

**SECTION 16: Other information****Changes**

Data changed from previous versions: 1.4., 3.2.

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#### 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: Notice the directions for use on the label.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

#### Identified uses

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

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

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