

STAMMOPUR 24

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

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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 number:

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

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Resp. Sens. 1

Respiratory or skin sensitisation: Skin Sens. 1

Reproductive toxicity: Repr. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause drowsiness or dizziness.

Suspected of damaging fertility. Suspected of damaging the unborn child.

Toxic to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

Butane-1,4-diol

N,N-Bis(3-aminopropyl)dodecylamine

Didecylmethylammoniumpropionate

piperazine

Signal word:

Danger

Pictograms:

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Hazard statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
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.
H411	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 according to Regulation (EC) No. 1272/2008 [CLP]			
7732-18-5	Water			20-30 %
	213-791-2			
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		01-2119475104-4	
	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. 1A, STOT RE 2, Aquatic Acute 1; H301 H314 H373 H400			
94667-33-1	Didecylmethylammoniumpropionate			8,4 %
	619-057-3		01-2119950327-36	
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H400 H410			
79-33-4	Lactic acid			2-7 %
	201-196-2		01-2119474164-39	
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
68920-66-1	C16-C18 Fatty alcohol, ethoxylated			2-7 %
	-		*	
110-85-0	piperazine			<5 %
	203-808-3	612-057-01-1	01-2119480384-35	
	Repr. 2, Skin Corr. 1B, Resp. Sens. 1, Skin Sens. 1; H361fd H314 H334 H317			
60-00-4	Ethylenediaminetetraacetic acid			1-5 %
	200-449-4		01-2119486399-18	
	Acute Tox. 4, Eye Dam. 1; H302 H318			
68515-73-1	Alkylpolyglycosid			1-5 %
	-		01-2119488530-36	
	Eye Dam. 1; H318			

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

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.

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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****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 (NOx). Carbon dioxide (CO₂).

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**

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

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.

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.

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Keep away from food, drink and animal feedingstuffs.

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	Exposure route	Effect	Value
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			
Consumer DNEL, long-term		oral	systemic	1,25 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	20 mg/kg bw/day
68515-73-1	Alkylpolyglycosid			
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

PNEC values

CAS No	Substance	Value
Environmental compartment		
110-63-4	Butane-1,4-diol	
Marine water		0,0813 mg/l
Marine water (intermittent releases)		8,13 mg/l
Freshwater sediment		3,61 mg/kg
Marine sediment		0,361 mg/kg
79-33-4	Lacitic acid	
Freshwater		1,3 mg/l
68515-73-1	Alkylpolyglycosid	
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.

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Protective and hygiene measures

- 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.

Eye/face protection

- Wear eye/face protection.

Hand protection

- Suitable material: PVC (Polyvinyl chloride). PE (polyethylene). NR (Natural rubber (Caoutchouc), Natural latex). CR (polychloroprenes, Chloroprene rubber). NBR (Nitrile rubber). Butyl rubber. FKM (Fluoroelastomer (Viton)).
- penetration time (maximum wearing period): >480 min. Breakthrough times and swelling characteristics of the material must be taken into consideration.

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

pH-Value (at 20 °C):

in delivery condition: 10,0

Test method

DGF H-III 1

Changes in the physical state

Melting point:	-20 °C
Initial boiling point and boiling range:	100 °C
Flash point:	non-flammable

Explosive properties

- not Explosive.

Oxidizing properties

- not oxidizing.

Density (at 20 °C):

1,02 g/cm³ DIN 12791Water solubility:
(at 20 °C)

complete miscible

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 toxicological effects

Acute toxicity

Harmful if swallowed.

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

ATEmix calculated

ATE (oral) 618,0 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
110-63-4	Butane-1,4-diol				
	oral	LD50 mg/kg 1525	rat	RTECS	
	dermal	LD50 mg/kg >2000	rabbit	RTECS	
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether				
	oral	LD50 mg/kg 3305	rat		
	dermal	LD50 mg/kg 2764	rabbit		
2372-82-9	N,N-Bis(3-aminopropyl)dodecylamine				
	oral	LD50 mg/kg 261	rat		OECD 401
	dermal	LD50 mg/kg >600	rat		OECD 402
94667-33-1	Didecylmethylammoniumpropionate				
	oral	ATE mg/kg 500			
79-33-4	Lacitic acid				
	oral	LD50 mg/kg 3730	rat		
	dermal	LD50 mg/kg >2000	rabbit		
	inhalative (4 h) vapour	LC50 mg/l >7.94	rat		
68920-66-1	C16-C18 Fatty alcohol, ethoxylated				
	oral	LD50 mg/kg >2000	Ratte		
60-00-4	Ethylenediaminetetraacetic acid				
	oral	ATE mg/kg 500			
68515-73-1	Alkylpolyglycosid				
	oral	LD50 mg/kg >5000			

Irritation and corrosivity

Causes severe skin burns and eye damage.

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

Sensitising effects

May cause an allergic skin reaction. (piperazine)

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

May cause sensitization by inhalation and skin contact.

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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**

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

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
79-33-4	Lacitic acid					
	Acute fish toxicity	LC50 130 mg/l	96 h	Oncorhynchus mykiss		
68920-66-1	C16-C18 Fatty alcohol, ethoxylated					
	Acute fish toxicity	LC50 30 mg/l	96 h			
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h			
68515-73-1	Alkylpolyglycosid					
	Acute fish toxicity	LC50 >100 mg/l	96 h			

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			
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.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
79-33-4	Lacitic acid	-0,62

BCF

CAS No	Chemical name	BCF	Species	Source
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	<100		

12.4. Mobility in soil

No data available

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12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

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

Waste disposal number of waste from 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

Waste disposal number of 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:	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
Classification code:	C9
Special Provisions:	274
Limited quantity:	5 L
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Marine transport (IMDG)

14.1. UN 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)

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14.1. UN 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 55: 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether

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

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

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: 2.1., 3.2., 8.1., 11.1., 12.1., 12.2., 12.3., 13.1., 15.1., 16.

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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 present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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