

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: 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. |

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 mixture

In case of fire may be liberated: Nitrogen oxides (NOx). 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 hygiene

Do 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 | 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 | 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 | 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 after work.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety goggles/face protection.

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Hand protection

Suitable material:

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

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/cm ³ 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

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Oxidizing properties
not oxidizing.

Other safety characteristics

| | |
|----------------------|----------------|
| 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 | Lactic 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 | Lactic 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, Didecylmethylammoniumpropionate, 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
paints and varnishes: 35 % (357 g/l)**National regulatory information**

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

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15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been 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 DR 8 | PW | - | 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.)