

| WM 0713966  | Order number: 0712577    |                       |
|-------------|--------------------------|-----------------------|
| Version 6.1 | Revision Date 28.06.2018 | Print Date 31.07.2019 |

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

#### 1.1 Product identifier

| Trade name            | : | MANUDISH ORIGINAL 2 X 5 LITER |
|-----------------------|---|-------------------------------|
| Identification number | : | 61066                         |

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

| Use of the Substance/Mixture | : | Cleaning agent |
|------------------------------|---|----------------|
|------------------------------|---|----------------|

Restricted to professional users.

#### 1.3 Details of the supplier of the safety data sheet

| Company                    | : | tana Chemie GmbH                     |
|----------------------------|---|--------------------------------------|
|                            |   | Rheinallee 96                        |
|                            |   | 55120 Mainz                          |
| Telephone                  | : | +49613196403                         |
| Telefax                    | : | +4961319642414                       |
| E-mail address             | : | Produktsicherheit@werner-mertz.com   |
| Responsible/issuing person |   |                                      |
| Contact person             | : | Product development / product safety |

#### 1.4 Emergency telephone number

+49(0)6131-19240

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2

H319: Causes serious eye irritation.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms Signal word Warning : Hazard statements H319 Causes serious eye irritation. P102 Precautionary statements • Keep out of reach of children. **Prevention:** P280 Wear protective gloves/ eye protection. **Response:** P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for



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|             | P337 + P313<br><b>Disposal:</b><br>P501 | present and easy to<br>If eye irritation pers<br>attention. | emove contact lenses, if<br>o do. Continue rinsing.<br>ists: Get medical advice/<br>s/ container to an approved<br>nt. |

Safety data sheet available on request.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. No information available.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature

: Aqueous surfactant solution.

## Hazardous components

| Chemical name   | CAS-No.<br>EC-No.<br>Registration number     | Classification  | Concentration<br>(% w/w) |
|---|--|---|--------------------------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts   | 68891-38-3<br>01-2119488639-16               | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Aquatic Chronic 3;<br>H412<br>SCL<br>5 - < 10 % 2; H319<br>>= 10,0 % 1; H318 | >= 5 - < 10              |
| 1-Propanaminium, 3-amino-N-<br>(carboxymethyl)-N,N-dimethyl-, N-<br>coco acyl derivs., hydroxides, inner<br>salts | 147170-44-3<br>931-296-8<br>01-2119488533-30 | Eye Dam. 1; H318<br>Aquatic Chronic 3;<br>H412<br>SCL<br>> 4 - 10 % 2; H319<br>> 10,0 % 1; H318                         | >= 2 - < 2,5             |
| D-Glucopyranose, oligomeric, C10-<br>16-alkyl glycosides  | 110615-47-9<br>01-2119489418-23              | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>SCL<br>> 12 - 30 % 1; H318<br>1 - 12 % 2; H319                               | >= 1 - < 2               |

For explanation of abbreviations see section 16.



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# SECTION 4: First aid measures

### 4.1 Description of first aid measures

| General advice   | : | Move out of dangerous area.<br>Consult a physician.<br>Show this safety data sheet to the doctor in attendance.   |  |  |
|--|---|---|--|--|
| If inhaled   | : | Move to fresh air.<br>If symptoms persist, call a physician.  |  |  |
| In case of skin contact  | : | Take off contaminated clothing and shoes immediately.<br>Wash off with soap and plenty of water.<br>If symptoms persist, call a physician.  |  |  |
| In case of eye contact   | : | Protect unharmed eye.<br>If easy to do, remove contact lens, if worn.<br>Rinse immediately with plenty of water, also under the eyelids, for at<br>least 15 minutes.<br>If eye irritation persists, consult a specialist. |  |  |
| If swallowed   | : | Clean mouth with water and drink afterwards plenty of water.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>Obtain medical attention.                           |  |  |
| 4.2 Most important symptoms and effects, both acute and delayed                |   |   |  |  |
| Symptoms   | : | Irritation  |  |  |
| Risks  | : | No information available.   |  |  |
| 4.3 Indication of any immediate medical attention and special treatment needed |   |   |  |  |
|  |   |   |  |  |

| Treatment | : | For specialist advice physicians should contact the Poisons |
|-----------|---|---|
|           |   | Information Service.  |

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

| Suitable extinguishing media            | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|---|---|---|
| 5.2 Special hazards arising from the s  | u | ostance or mixture  |
| Specific hazards during<br>firefighting | : | Do not allow run-off from fire fighting to enter drains or water courses.                               |
| Hazardous combustion products           | : | No hazardous combustion products are known  |



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### 5.3 Advice for firefighters

| Special protective equipment for<br>firefighters | : In the event of fire, wear self-contained breathing apparatus.  |
|--|---|
| Further information                              | : Collect contaminated fire extinguishing water separately. This must<br>not be discharged into drains. Fire residues and contaminated fire<br>extinguishing water must be disposed of in accordance with local<br>regulations. |

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

| Personal precautions              | : Use personal protective equipment.<br>Ensure adequate ventilation.   |
|-----------------------------------|--|
| 6.2 Environmental precautions     |  |
| Environmental precautions         | : Do not flush into surface water or sanitary sewer system.  |
| 6.3 Methods and materials for con | tainment and cleaning up   |
| Methods for cleaning up           | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. |

#### 6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

| Advice on safe handling                         | : | Avoid contact with skin and eyes. For personal protection see section<br>8. Smoking, eating and drinking should be prohibited in the<br>application area. Dispose of rinse water in accordance with local and<br>national regulations. |
|---|---|--|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection.  |
| Hygiene measures                                | : | Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.  |

### 7.2 Conditions for safe storage, including any incompatibilities

| Requirements for storage areas | : | Store in original container. Keep container tightly closed in a dry and |
|--------------------------------|---|---|
| and containers                 |   | well-ventilated place. Store at room temperature in the original        |



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| Other data                                 | container.<br>: No decomposition if stored and applied as dire | cted.                 |
| 7.3 Specific end use(s)<br>Specific use(s) | : Cleaning agent   |                       |

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

| Alcohols, C12-14, ethoxylated,<br>sulfates, sodium salts<br>68891-38-3: | : End Use: Workers<br>Exposure routes: Skin contact<br>Potential health effects: Long-term systemic effects<br>Value: 2750 mg/kg |
|---|--|
|   | End Use: Workers<br>Exposure routes: Inhalation<br>Potential health effects: Long-term systemic effects<br>Value: 175 mg/m3      |
|   | End Use: Consumers<br>Exposure routes: Skin contact<br>Potential health effects: Long-term systemic effects<br>Value: 1650 mg/kg |
|   | End Use: Consumers<br>Exposure routes: Inhalation<br>Potential health effects: Long-term systemic effects<br>Value: 52 mg/m3     |
|   | End Use: Consumers<br>Exposure routes: Ingestion<br>Potential health effects: Long-term systemic effects<br>Value: 15 mg/kg      |
|   | End Use: Workers<br>Exposure routes: Skin contact<br>Potential health effects: Long-term local effects<br>Value: 0,132 mg/cm2    |
|   | End Use: Consumers<br>Exposure routes: Skin contact<br>Potential health effects: Long-term local effects<br>Value: 0,079 mg/cm2  |
|   |  |



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| 1-Propanaminium, 3-amino-N-<br>(carboxymethyl)-N,N-<br>dimethyl-, N-coco acyl derivs.,<br>hydroxides, inner salts<br>147170-44-3: | : End Use: Workers<br>Exposure routes: Inhalation<br>Potential health effects: Long-term system<br>Value: 44 mg/m3       | ic effects            |
|   | End Use: Workers<br>Exposure routes: Skin contact<br>Potential health effects: Long-term system<br>Value: 12,5 mg/kg     | ic effects            |
|   | End Use: Consumers<br>Exposure routes: Ingestion<br>Potential health effects: Long-term system<br>Value: 7,5 mg/kg       | ic effects            |
|   | End Use: Consumers<br>Exposure routes: Skin contact<br>Potential health effects: Long-term system<br>Value: 7,5 mg/kg    | ic effects            |
| D-Glucopyranose, oligomeric,<br>C10-16-alkyl glycosides<br>110615-47-9:   | : End Use: Workers<br>Exposure routes: Skin contact<br>Potential health effects: Long-term system<br>Value: 595000 mg/kg | ic effects            |
|   | End Use: Workers<br>Exposure routes: Inhalation<br>Potential health effects: Long-term system<br>Value: 420 mg/m3        | ic effects            |
|   | End Use: Consumers<br>Exposure routes: Skin contact<br>Potential health effects: Long-term system<br>Value: 357000 mg/kg | ic effects            |
|   | End Use: Consumers<br>Exposure routes: Inhalation<br>Potential health effects: Long-term system<br>Value: 124 mg/m3      | ic effects            |
|   | End Use: Consumers<br>Exposure routes: Ingestion<br>Potential health effects: Long-term system<br>Value: 35,7 mg/kg      | ic effects            |
| PNEC  |  |                       |
| Alcohols, C12-14, ethoxylated,<br>sulfates, sodium salts<br>68891-38-3:   | : Fresh water<br>Value: 0,24 mg/l  |                       |
|   | Marine water<br>Value: 0,024 mg/l  |                       |
|   | STP  |                       |

STP



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|   | Value: 10000 mg/kg                         |                       |
|   | intermittent release<br>Value: 0,071 mg/l  |                       |
|   | Fresh water sediment<br>Value: 5,45 mg/kg  |                       |
|   | Marine sediment<br>Value: 0,545 mg/kg      |                       |
|   | Soil<br>Value: 0,946 mg/kg                 |                       |
| 1-Propanaminium, 3-amino-N-<br>(carboxymethyl)-N,N-<br>dimethyl-, N-coco acyl derivs.,<br>hydroxides, inner salts<br>147170-44-3: | : Fresh water<br>Value: 0,0135 mg/l        |                       |
|   | Marine water<br>Value: 0,00135 mg/l        |                       |
|   | STP<br>Value: 3000 mg/l                    |                       |
|   | Marine sediment<br>Value: 0,1 mg/kg        |                       |
|   | Soil<br>Value: 0,8 mg/kg                   |                       |
| D-Glucopyranose, oligomeric,<br>C10-16-alkyl glycosides<br>110615-47-9:   | : Fresh water<br>Value: 0,176 mg/l         |                       |
|   | Marine water<br>Value: 0,018 mg/l          |                       |
|   | Fresh water sediment<br>Value: 1,516 mg/kg |                       |
|   | Marine sediment<br>Value: 0,065 mg/kg      |                       |
|   | Soil<br>Value: 0,654 mg/kg                 |                       |
|   | STP<br>Value: 5000 mg/l                    |                       |
|   | intermittent release<br>Value: 0,0295 mg/l |                       |
| 8.2 Exposure controls   |  |                       |

8.2 Exposure controls



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| Personal protective equipme | <u>t</u>       |   |                          |
| Eye protection              |                | re likely to occur, wear:<br>safety goggles   |                          |
| Hand protection             |                |   |                          |
| Material                    | Chemical res   | ed or repeated contact use p<br>sistant gloves made of butyl<br>according to EN 374-1: 2003                     | rubber or nitrile rubber |
| Remarks                     | permeability   | the information given by the and break through times, and break through times, an nechanical strain, duration c | nd of special workplace  |
| Skin and body protection    | : not required | under normal use  |                          |
| Respiratory protection      |                | ; except in case of aerosol f<br>led Filter type:<br>er   | ormation.                |
| Environmental exposure con  | <u>rols</u>    |   |                          |
| General advice              | : Do not flush | into surface water or sanita  | ry sewer system.         |

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

| Appearance                  | : liquid            |
|-----------------------------|---------------------|
| Colour                      | : green             |
| Odour                       | : neutral           |
| Odour Threshold             | : No data available |
| рН                          | : ca. 5,5           |
| Melting point/range         | : No data available |
| Boiling point/boiling range | : No data available |
| Flash point                 | : Not applicable    |
| Evaporation rate            | : No data available |
| Flammability (solid, gas)   | : No data available |
| Burning rate                | : No data available |
| Lower explosion limit       | : No data available |
| Upper explosion limit       | : No data available |



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| Vapour pressure                            | : No data available      |                       |
| Relative vapour density                    | : No data available      |                       |
| Relative density                           | : No data available      |                       |
| Density                                    | : ca. 1,022 g/cm3        |                       |
| Water solubility                           | : soluble                |                       |
| Solubility in other solvents               | : No data available      |                       |
| Partition coefficient: n-<br>octanol/water | : No data available      |                       |
| Ignition temperature                       | : No data available      |                       |
| Thermal decomposition                      | : No data available      |                       |
| Viscosity, dynamic                         | : ca. 500 mPa.s          |                       |
| Viscosity, kinematic                       | : No data available      |                       |
| Explosive properties                       | : No data available      |                       |
| Oxidizing properties                       | : No data available      |                       |

#### 9.2 Other information

none

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Stable under recommended storage conditions., No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

| 10.3 Possibility of hazardous read  | tions   |
|-------------------------------------|---|
| Hazardous reactions                 | : Stable under recommended storage conditions., No decomposition if used as directed. |
| 10.4 Conditions to avoid            |   |
| Conditions to avoid                 | : No data available   |
| 10.5 Incompatible materials         |   |
| Materials to avoid                  | : No data available   |
| 10.6 Hazardous decomposition pr     | oducts  |
| Hazardous decomposition<br>products | : No hazardous decomposition products are known.                                      |
| Other information                   | : No hazardous decomposition products are known.                                      |



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## **SECTION 11: Toxicological information**

| 11.1 Information on toxicological eff                               | fects   |
|---|---|
| Product   |   |
| Skin corrosion/irritation   | : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.   |
| Serious eye damage/eye irritation                                   | : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.   |
| Respiratory or skin sensitisation                                   | : No data available   |
| Further information   | : No data available   |
| <u>Components:</u><br>Alcohols, C12-14, ethoxylated,<br>68891-38-3: | sulfates, sodium salts  |
| Acute oral toxicity   | : LD50 Oral Rat: 4.100 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: no  |
| Acute dermal toxicity   | : LD50 Rat: > 2.000 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: yes  |
| Skin corrosion/irritation   | : Species: Rabbit<br>Method: OECD Test Guideline 404  |
| Serious eye damage/eye irritation                                   | : Species: Rabbit<br>Method: OECD Test Guideline 405  |
| Respiratory or skin sensitisation                                   | <ul> <li>Test Method: Maximisation Test<br/>Species: Guinea pig<br/>Result: Did not cause sensitisation on laboratory animals.<br/>Method: OECD Test Guideline 406</li> </ul> |
| Germ cell mutagenicity  |   |
| Genotoxicity in vitro   | : Result: negative<br>Method: OECD Test Guideline 471   |
| Reproductive toxicity   | <ul> <li>Species: Rat<br/>Application Route: Oral<br/>NOAEL: &gt; 300 mg/kg,</li> <li>F1: &gt; 300 mg/kg, Method: OECD Test Guideline 416</li> </ul>                          |



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| Teratogenicity :                             | Species: Rat<br>Application Route: Oral<br>>1.000 mg/kg<br>> 1.000 mg/kg<br>Method: OECD Test Guideline 414  |                            |
| Repeated dose toxicity :                     | Rat: NOAEL: > 225 mg/kg  |                            |
|  | Application Route: Oral<br>Exposure time: 90 Days<br>Method: OECD Test Guideline 408<br>Target Organs: Liver |                            |
| STOT - repeated exposure :                   | Exposure routes: Ingestion<br>Target Organs: Liver   |                            |
| salts  | boxymethyl)-N,N-dimethyl-, N-coco acyl   | derivs., hydroxides, inner |
| <b>147170-44-3:</b><br>Acute oral toxicity : | LD50 Oral : > 8.000 mg/kg<br>Method: OECD Test Guideline 401   |                            |
|  | LD50 Rat: 2.335 mg/kg  |                            |
| Acute dermal toxicity :                      | LD50 Rat: > 2.000 mg/kg  |                            |
| Reproductive toxicity :                      | Species: Rat<br>Application Route: Oral<br>NOAEL: 300 mg/kg  |                            |
| Teratogenicity :                             | Species: Rat<br>Application Route: Oral<br>1.000 mg/kg<br>100 mg/kg<br>Method: see user defined free text    |                            |
| Repeated dose toxicity :                     | Rat, male and female: NOAEL: 300 mg/k  | g                          |
|  | Application Route: Oral<br>Exposure time: 90 d<br>Method: see user defined free text                         |                            |
| D-Glucopyranose, oligomeric, C10             | 0-16-alkyl glycosides  |                            |
| <b>110615-47-9:</b><br>Acute oral toxicity : | LD50 Oral : > 5.000 mg/kg  |                            |
| Acute dermal toxicity :                      | LD50 Dermal : > 5.000 mg/kg<br>Method: OECD Test Guideline 402   |                            |



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| SECTION 12: Ecological information                                      | n   |
|---|---|
| 12.1 Toxicity   |   |
| <u>Components:</u><br>Alcohols, C12-14, ethoxylated, sul<br>68891-38-3: | fates, sodium salts   |
| Toxicity to fish :  | LC50 (Danio rerio (zebra fish)): 7,1 mg/l<br>Exposure time: 96 h<br>Test Type: flow-through test<br>Method: OECD Test Guideline 203<br>GLP: yes               |
|   | LC50 (Fish): > 1 - 10 mg/l<br>Test Type: semi-static test<br>Method: OECD Test Guideline 203  |
|   | LC50 (Leuciscus idus (Golden orfe)): 10 - 100 mg/l<br>Method: OECD Test Guideline 203   |
|   | NOEC (Oncorhynchus mykiss (rainbow trout)): 0,14 mg/l<br>Exposure time: 28 d<br>Test Type: flow-through test<br>Method: OECD Test Guideline 204               |
|   | LC50 (Brachydanio rerio (zebrafish)): 1 - 10 mg/l<br>Test Type: flow-through test<br>Method: OECD Test Guideline 203  |
| Toxicity to daphnia and other : aquatic invertebrates                   | EC50 (Daphnia pulex (Water flea)): 7,4 mg/l<br>Test Type: Immobilization<br>Method: OECD Test Guideline 202   |
|   | EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202                          |
|   | NOEC (Daphnia magna (Water flea)): 0,27 mg/l<br>Exposure time: 21 d<br>Test Type: flow-through test<br>Method: OECD Test Guideline 211                        |
| Toxicity to algae :   | EC50 (Desmodesmus subspicatus (green algae)): 27,7 mg/l<br>Exposure time: 72 h<br>Test Type: Growth inhibition<br>Method: OECD Test Guideline 201<br>GLP: yes |
|   | EC50 (Scenedesmus subspicatus): 10 - 100 mg/l<br>Method: OECD Test Guideline 201  |



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|  | EC50 (Desmodesmus subspicatus<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201   |                                   |
|  | NOEC : 0,95 mg/l<br>Test Type: Growth inhibition<br>Method: OECD Test Guideline 201   | 1                                 |
|  | NOEC (Desmodesmus subspicatu<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201  |                                   |
| Toxicity to bacteria   | EC50 (Pseudomonas putida): > 10<br>Exposure time: 16 h<br>Test Type: Cell multiplication inhib<br>Method: DIN 38412<br>GLP: yes                             |                                   |
|  | EC10 (Pseudomonas putida): > 10<br>Test Type: Cell multiplication inhib<br>GLP:   |                                   |
| Toxicity to fish (Chronic toxicity)                                    | : NOEC: 1,2 mg/l  |                                   |
|  | NOEC: 1 - 10 mg/l<br>Species: Leuciscus idus (Golden o  | orfe)                             |
|  | NOEC: 0,14 mg/l<br>Exposure time: 28 d<br>Species: Oncorhynchus mykiss (ra<br>Method: OECD Test Guideline 204   | ainbow trout)<br>4                |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | <ul> <li>NOEC: &gt; 0,1 - 1 mg/l</li> <li>Exposure time: 21 d</li> <li>Species: Daphnia magna (Water fl</li> <li>Method: OECD Test Guideline 211</li> </ul> |                                   |
| Toxicity to soil dwelling organisms                                    | <ul> <li>NOEC: 750 mg/kg</li> <li>Exposure time: 96 d</li> <li>Species: Eisenia fetida (earthworm Method: OECD Test Guideline 222</li> </ul>                |                                   |
| 1-Propanaminium, 3-amino-N-(o<br>salts<br>147170-44-3:                 | boxymethyl)-N,N-dimethyl-, N-coc  | o acyl derivs., hydroxides, inner |
| Toxicity to fish   | <ul> <li>LC50 (Calamus penna): 1,11 mg/l<br/>Exposure time: 96 h<br/>Test Type: semi-static test<br/>Method: OECD Test Guideline 203</li> </ul>             |                                   |
|  | EC10 (Fish): 1,11 mg/l<br>Exposure time: 96 h   |                                   |



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|  |     | Method: OECD Test Guideline 203   |                       |
| Toxicity to daphnia and other aquatic invertebrates                    | :   | EC50 (Daphnia magna (Water flea)): 6,5 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202         |                       |
|  |     | EC50 (Daphnia magna (Water flea)): 0,3 mg/l<br>Exposure time: 21 d<br>Method: OECD Test Guideline 211                                   |                       |
| Toxicity to algae  | :   | EC50 (Desmodesmus subspicatus (green algae<br>Exposure time: 72 h<br>GLP: yes   | e)): 1,5 mg/l         |
| Toxicity to bacteria   | :   | EC0 (Bacteria): > 3.000 mg/l<br>GLP:  |                       |
| Toxicity to fish (Chronic toxicity)                                    | :   | NOEC: 0,135 mg/l<br>Exposure time: 100 d<br>Species: Oncorhynchus mykiss (rainbow trout)<br>Method: OECD Test Guideline 210<br>GLP: yes |                       |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | :   | NOEC: 0,32 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Method: OECD Test Guideline 211<br>GLP: yes            |                       |
| D-Glucopyranose, oligomeric, C<br>110615-47-9:                         | C10 | -16-alkyl glycosides  |                       |
| Toxicity to fish   | :   | LC50 (Fish): > 1 - 10 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203  |                       |
|  |     | LC50 (Brachydanio rerio (zebrafish)): 2,95 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203                               |                       |
| Toxicity to daphnia and other aquatic invertebrates                    | :   | EC50 (Daphnia (water flea)): > 10 - 100 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                                  |                       |
|  |     | EC50 (Daphnia magna (Water flea)): 7 mg/l<br>Exposure time: 48 h  |                       |
| Toxicity to algae  | :   | EC50 : > 10 - 100 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201  |                       |
|  |     | EC50 (Desmodesmus subspicatus (green algae<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201                                    | e)): 12,5 mg/l        |
|  |     |   |                       |



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| Toxicity to bacteria   | : EC0 (Pseudomonas putida): > 100 mg/l<br>Exposure time: 16 h<br>Method: DIN 38412  |                           |
| Toxicity to fish (Chronic toxicity)                                    | <ul> <li>NOEC: &gt; 1 mg/l<br/>Exposure time: 28 d<br/>Species: Brachydanio rerio<br/>Method: OECD Test Guideline 204</li> </ul>                      |                           |
|  | NOEC: 1,8 mg/l<br>Exposure time: 28 d<br>Species: Brachydanio rerio<br>Method: OECD Test Guideline 204  |                           |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | <ul> <li>NOEC: &gt; 1 mg/l<br/>Exposure time: 21 d<br/>Species: Daphnia magna (Water flea)<br/>Method: see user defined free text</li> </ul>          |                           |
|  | EC10: 1,76 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Method: OECD Test Guideline 202                                      |                           |
| 2 Persistence and degradability  |   |                           |
| Product:   |   |                           |
| Biodegradability   | : Remarks: The surfactant(s) contained in this (comply) with the biodegradability criteria as (EC) No. 648/2004 on detergents.                        |                           |
| Components:  |   |                           |
| Alcohols, C12-14, ethoxylated, s<br>68891-38-3:                        | sulfates, sodium salts  |                           |
| Biodegradability   | <ul> <li>Test Type: aerobic<br/>Result: rapidly biodegradable<br/>Biodegradation: &gt; 70 %<br/>Exposure time: 28 d<br/>Method: OECD 301 A</li> </ul> |                           |
| 1-Propanaminium, 3-amino-N-(c<br>salts<br>147170-44-3:                 | arboxymethyl)-N,N-dimethyl-, N-coco acyl de   | erivs., hydroxides, inner |
| Biodegradability   | : Test Type: aerobic<br>Concentration: 20 mg/l<br>Result: rapidly biodegradable<br>Biodegradation: 92 %<br>Exposure time: 28 d<br>Method: OECD 301 B  |                           |
|  | Test Type: anaerobic<br>Concentration: 102,4 mg/l<br>Biodegradation: 80 - 90 %  |                           |
|  |   |                           |



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|   | Exposure time: 60 d<br>Method: see user defined free text<br>GLP: yes   |                             |
| Chemical Oxygen Demand (COD)                                      | : 1.000.000 mg/l  |                             |
| D-Glucopyranose, oligome<br>110615-47-9:                          | ric, C10-16-alkyl glycosides  |                             |
| Biodegradability  | : Result: rapidly biodegradable<br>Method: OECD Test Guideline 301  |                             |
| 12.3 Bioaccumulative potential                                    |   |                             |
| <u>Components:</u><br>Alcohols, C12-14, ethoxyla<br>68891-38-3:   | ted, sulfates, sodium salts   |                             |
| Bioaccumulation   | : Remarks: Bioaccumulation is unlikely.   |                             |
|   | ric, C10-16-alkyl glycosides  |                             |
| <b>110615-47-9:</b><br>Partition coefficient: n-<br>octanol/water | : log Pow: < -0,07 (20 °C)  |                             |
| 12.4 Mobility in soil   |   |                             |
| <u>Components:</u><br>Alcohols, C12-14, ethoxyla<br>68891-38-3:   | ted, sulfates, sodium salts   |                             |
| Distribution among<br>environmental compartments                  | : Adsorption/Soil<br>Medium:Soil<br>Koc: 191Method: see user defined free tex   | t                           |
| 12.5 Results of PBT and vPvB a                                    | ssessment   |                             |
| Product:  |   |                             |
| Assessment  | : This substance/mixture contains no compo<br>either persistent, bioaccumulative and toxic<br>and very bioaccumulative (vPvB) at levels | c (PBT), or very persistent |
| <u>Components:</u><br>Alcohols, C12-14, ethoxyla                  | ted, sulfates, sodium salts   |                             |
| 68891-38-3:<br>Assessment   | : This substance is not considered to be ver<br>bioaccumulating (vPvB) This substance is<br>persistent, bioaccumulating and toxic (PBT  | s not considered to be      |
| 12.6 Other adverse effects  |   |                             |
| Product:  |   |                             |
| <u>i i o d d o ti</u>   |   |                             |



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### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

| Product                | <ul> <li>Do not dispose of waste into sewer.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or<br/>used container.</li> <li>Offer surplus and non-recyclable solutions to a licensed disposal<br/>company.</li> </ul>                        |
|------------------------|---|
| Contaminated packaging | <ul> <li>Empty remaining contents.</li> <li>Dispose of as unused product.</li> <li>Do not re-use empty containers.</li> </ul>   |
| Waste Code             | European Waste Catalogue<br>200129<br>According to the European Waste Catalogue, Waste Codes are not<br>product specific, but application specific. Waste codes should be<br>assigned by the user, preferably in discussion with the waste<br>disposal authorities. |

### **SECTION 14: Transport information**

#### 14.1 UN number

ADR Not dangerous goods IMDG Not dangerous goods ΙΑΤΑ Not dangerous goods

#### 14.2 Proper shipping name Not regulated as a dangerous good

## 14.3 Transport hazard class

ADR Not dangerous goods IMDG Not dangerous goods ΙΑΤΑ Not dangerous goods

#### 14.4 Packing group

ADR Not dangerous goods IMDG Not dangerous goods ΙΑΤΑ Not dangerous goods

14.5 Environmental hazards ADR Not dangerous goods IMDG



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| Not regulated as a dangerous g<br>IATA<br>Not dangerous goods   |  |                                |
| 14.6 Special precautions for user<br>Remarks  | : Not classified as dangerous in the mea   | ning of transport regulations. |
| For personal protection see sec   | tion 8.  |                                |
| 14.7 Transport in bulk according to<br>Not applicable for product as su   | o Annex II of MARPOL 73/78 and the IBC Co<br>pplied.   | ode                            |
| SECTION 15: Regulatory inform   | nation   |                                |
| 15.1 Safety, health and environmer  | ntal regulations/legislation specific for the  | substance or mixture           |
| Regulation (EC) No 649/2012 of<br>the Council concerning the expo<br>chemicals  |  | icable                         |
| Seveso III: Directive 2012/18/EU<br>of the European Parliament and<br>the Council on the control of<br>major-accident hazards involvin<br>dangerous substances. | of   |                                |
| TA Luft List (Germany)  | <ul> <li>Total dust: Not applicable</li> <li>Inorganic substances in powdered form</li> <li>Inorganic substances in vapour or gase<br/>0,7 %</li> <li>Organic Substances: Not applicable</li> <li>Carcinogenic substances: Not applicable</li> <li>Mutagenic: Not applicable</li> <li>Toxic to reproduction: Not applicable</li> </ul> | eous form: : portionClass 3:   |
| Volatile organic compounds<br>(VOC) content   | : Percent volatile: 0,24 %<br>29,9 g/l<br>VOC content excluding water  |                                |
|   | : Percent volatile: 0,24 %   |                                |
| Volatile organic compounds<br>(VOC) content   | 2,47 g/l<br>VOC content valid only for coating mate  | erials used on wood surfaces   |
|   |  |                                |

**15.2 Chemical safety assessment** There is no data available for this product.



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### **SECTION 16: Other information**

#### Full text of H-Statements

| H315 | Causes skin irritation.                            |
|------|--|
| H318 | Causes serious eye damage.                         |
| H412 | Harmful to aquatic life with long lasting effects. |

#### **Further information**

Classification procedure:

H319

Calculation method

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS -Australian Inventory of Chemical Substances: ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL -International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT -Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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