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Revision date / version: 15.11.2023 / 0002  
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NanoMagicShampoo  
Art.: 206999

## **Safety data sheet** **according to Regulation (EC) No 1907/2006, Annex II**

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

#### **1.1 Product identifier**

**NanoMagicShampoo**  
**Art.: 206999**

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

**Relevant identified uses of the substance or mixture:**

Vehicle cleansing

**Uses advised against:**

No information available at present.

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

Koch-Chemie GmbH  
Einsteinstrasse 42  
59423 Unna  
Telefon: +49 (0) 2303 / 9 86 70 - 0  
Fax: +49 (0) 2303 / 9 86 70 - 26  
info@koch-chemie.com  
www.koch-chemie.com

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### **1.4 Emergency telephone number**

**Emergency information services / official advisory body:**

IRL

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:  
+353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)  
+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

**Telephone number of the company in case of emergencies:**

+1 872 5888271 (KCC)

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

#### **2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) 1272/2008 (CLP)**

| <b>Hazard class</b> | <b>Hazard category</b> | <b>Hazard statement</b>                                 |
|---------------------|------------------------|---|
| Eye Irrit.          | 2                      | H319-Causes serious eye irritation.                     |
| Skin Irrit.         | 2                      | H315-Causes skin irritation.                            |
| Aquatic Chronic     | 3                      | H412-Harmful to aquatic life with long lasting effects. |

#### **2.2 Label elements**

**Labeling according to Regulation (EC) 1272/2008 (CLP)**



## Warning

H319-Causes serious eye irritation. H315-Causes skin irritation. H412-Harmful to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P273-Avoid release to the environment. P280-Wear protective gloves / 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. P314-Get medical advice / attention if you feel unwell.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH205-Contains epoxy constituents. May produce an allergic reaction.

## 2.3 Other hazards

The mixture contains a vPvB substance (vPvB = very persistent, very bioaccumulative).

The mixture contains a PBT substance (PBT = persistent, bioaccumulative, toxic).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even-numbered)-acyl derivs., hydroxides, inner salts |   |
|--|---|
| Registration number (REACH)  | 01-2119488533-30-XXXX                                 |
| Index  | ---   |
| EINECS, ELINCS, NLP, REACH-IT List-No.   | 931-296-8   |
| CAS  | 97862-59-4  |
| content %  | 10-<25  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors   | Eye Dam. 1, H318<br>Aquatic Chronic 3, H412           |
| Specific Concentration Limits and ATE  | Eye Dam. 1, H318: >=10 %<br>Eye Irrit. 2, H319: >=4 % |

  

| 2-Butoxyethanol  |   |
|--|---|
| Substance for which an EU exposure limit value applies.                |   |
| Registration number (REACH)  | 01-2119475108-36-XXXX   |
| Index  | 603-014-00-0  |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 203-905-0   |
| CAS  | 111-76-2  |
| content %  | 5-<10   |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Acute Tox. 3, H331<br>Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 |

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|  |   |
|--|---|
| <b>Specific Concentration Limits and ATE</b>   | ATE (oral): 1200 mg/kg<br>ATE (as inhalation, Vapours): 3 mg/l  |
| <b>Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)</b>  |   |
| Registration number (REACH)  | 01-2119490100-53-XXXX   |
| Index  | ---   |
| EINECS, ELINCS, NLP, REACH-IT List-No.   | 931-329-6   |
| CAS  | 68155-07-7  |
| content %  | 1-<5  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors   | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 2, H411                                      |
| <b>1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates (salts)</b> |   |
| Registration number (REACH)  | 01-2119983493-26-XXXX   |
| Index  | ---   |
| EINECS, ELINCS, NLP, REACH-IT List-No.   | 939-685-4   |
| CAS  | ---   |
| content %  | 1-<3  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors   | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412                                      |
| <b>Siloxanes and silicones, di-Me, 3-[3-[(3-coco amidopropyl)dimethylammonio]-2-hydroxypropoxy]propyl group-terminated, acetates (salts)</b>   |   |
| Registration number (REACH)  | ---   |
| Index  | ---   |
| EINECS, ELINCS, NLP, REACH-IT List-No.   | ---   |
| CAS  | 134737-05-6   |
| content %  | 1-<2,5  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors   | Aquatic Chronic 2, H411   |
| <b>Poly[3-((2-aminoethyl)amino)propyl]methyl(dimethyl)siloxane, methoxy-terminated</b>   |   |
| Registration number (REACH)  | ---   |
| Index  | ---   |
| EINECS, ELINCS, NLP, REACH-IT List-No.   | ---   |
| CAS  | 102782-92-3   |
| content %  | 0,1-<1  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors   | Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1) |
| <b>Decamethylcyclopentasiloxane</b>  | <b>PBT-substance<br/>vPvB-substance<br/>SVHC-substance</b>  |
| Registration number (REACH)  | 01-2119511367-43-XXXX   |
| Index  | ---   |
| EINECS, ELINCS, NLP, REACH-IT List-No.   | 208-764-9   |
| CAS  | 541-02-6  |
| content %  | <1  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors   | ---   |

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| Dodecamethylcyclohexasiloxane  | PBT-substance<br>vPvB-substance<br>SVHC-substance |
|--|---|
| Registration number (REACH)  | 01-2119517435-42-XXXX                             |
| Index  | ---   |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 208-762-8   |
| CAS  | 540-97-6  |
| content %  | <1  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | ---   |

| Octamethylcyclotetrasiloxane   | PBT-substance<br>vPvB-substance<br>SVHC-substance                      |
|--|--|
| Registration number (REACH)  | 01-2119529238-36-XXXX  |
| Index  | 014-018-00-1   |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 209-136-7  |
| CAS  | 556-67-2   |
| content %  | <0,1   |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 3, H226<br>Repr. 2, H361f<br>Aquatic Chronic 1, H410 (M=10) |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.  
 For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.  
 The substances named in this section are given with their actual, appropriate classification!  
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.  
 The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!  
 Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.  
 Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.  
 Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.  
 Do not induce vomiting - give copious water to drink. Consult doctor immediately.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.  
 In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

eyes, reddened  
 watering eyes  
 reddening of the skin  
 Dermatitis (skin inflammation)  
 Allergic reaction

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

Symptomatic treatment.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

The product does not burn.  
Adapt to the nature and extent of fire.  
Water jet spray / alcohol resistant foam / CO<sub>2</sub> / dry extinguisher.

#### Unsuitable extinguishing media

High volume water jet

### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon  
Oxides of nitrogen  
Oxides of sulphur  
Toxic gases

### 5.3 Advice for firefighters

For personal protective equipment see Section 8.  
In case of fire and/or explosion do not breathe fumes.  
Protective respirator with independent air supply.  
According to size of fire  
Full protection, if necessary.  
Dispose of contaminated extinction water according to official regulations.

## SECTION 6: Accidental release measures

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

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.  
Ensure sufficient ventilation, remove sources of ignition.  
Avoid dust formation with solid or powder products.  
Leave the danger zone if possible, use existing emergency plans if necessary.  
Avoid contact with eyes or skin.  
If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

### 6.2 Environmental precautions

If leakage occurs, dam up.  
Resolve leaks if this possible without risk.  
Prevent surface and ground-water infiltration, as well as ground penetration.  
Prevent from entering drainage system.  
If accidental entry into drainage system occurs, inform responsible authorities.

### 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.  
Fill the absorbed material into lockable containers.

### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.  
Avoid contact with eyes or skin.

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Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Store in a well ventilated place.

Store cool.

### 7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| GB Chemical Name  |  | 2-Butoxyethanol  |     |
|---|--|--|-----|
| WEL-TWA: 25 ppm (123 mg/m3) (WEL), 20 ppm (98 mg/m3) (EU)                   |  | WEL-STEL: 50 ppm (246 mg/m3) (WEL, EU)   | --- |
| Monitoring procedures:  |  | <ul style="list-style-type: none"><li>- Compur - KITA-190 U(C) (548 873)</li><li>- DFG Meth.-Nr. 2 (D) (Lösungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 2014, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 32-2 (2004)</li><li>- NIOSH 1403 (ALCOHOLS IV) - 2003</li><li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li><li>- OSHA 83 (2-Butoxyethanol (Butyl Cellosolve)) - 1990</li></ul> |     |
| BMGV: 240 mmol butoxyacetic acid/mol creatinine in urine, post shift (BMGV) |  | Other information: Sk (WEL)  |     |
| IRL Chemical Name   |  | 2-Butoxyethanol  |     |
| OELV-8h: 20 ppm (98 mg/m3) (OELV-8h, EU)                                    |  | OELV-15min: 50 ppm (246 mg/m3) (OELV-15min, EU)  | --- |
| Monitoring procedures:  |  | <ul style="list-style-type: none"><li>- Compur - KITA-190 U(C) (548 873)</li><li>- DFG Meth.-Nr. 2 (D) (Lösungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 2014, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 32-2 (2004)</li><li>- NIOSH 1403 (ALCOHOLS IV) - 2003</li><li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li><li>- OSHA 83 (2-Butoxyethanol (Butyl Cellosolve)) - 1990</li></ul> |     |
| BLV: 200 mg/g creatinine (Butoxyacetic acid (BAA) in urine, h) (ACGIH-BEI)  |  | Other information: Sk, IOELV   |     |
| M Chemical Name   |  | 2-Butoxyethanol  |     |
| OELV-8h: 20 ppm (98 mg/m3) (OELV-8h, UE)                                    |  | OELV-ST: 50 ppm (246 mg/m3) (OELV-ST, UE)  | --- |
| Monitoring procedures:  |  | <ul style="list-style-type: none"><li>- Compur - KITA-190 U(C) (548 873)</li><li>- DFG Meth.-Nr. 2 (D) (Lösungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 2014, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 32-2 (2004)</li><li>- NIOSH 1403 (ALCOHOLS IV) - 2003</li><li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li><li>- OSHA 83 (2-Butoxyethanol (Butyl Cellosolve)) - 1990</li></ul> |     |
| BMGV: 240 mmol butoxyacetic acid/mol creatinine in urine, post shift (BMGV) |  | Other information: Skin  |     |

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even-numbered)-acyl derivs., hydroxides, inner salts**

| Area of application | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value   | Unit     | Note |
|---------------------|--|-----------------------------|------------|---------|----------|------|
|                     | Environment - freshwater                   |                             | PNEC       | 0,0135  | mg/l     |      |
|                     | Environment - marine                       |                             | PNEC       | 0,00135 | mg/l     |      |
|                     | Environment - sewage treatment plant       |                             | PNEC       | 3000    | mg/l     |      |
|                     | Environment - soil                         |                             | PNEC       | 0,8     | mg/kg    |      |
|                     | Environment - sediment, freshwater         |                             | PNEC       | 1       | mg/kg dw |      |
|                     | Environment - sediment, marine             |                             | PNEC       | 0,1     | mg/kg dw |      |
| Consumer            | Human - oral                               | Long term, systemic effects | DNEL       | 7,5     | mg/kg    |      |
| Consumer            | Human - dermal                             | Long term, systemic effects | DNEL       | 7,5     | mg/kg    |      |
| Workers / employees | Human - inhalation                         | Long term, systemic effects | DNEL       | 44      | mg/m3    |      |
| Workers / employees | Human - dermal                             | Long term, systemic effects | DNEL       | 12,5    | mg/kg    |      |

| 2-Butoxyethanol     |   |                              |            |       |            |      |
|---------------------|---|------------------------------|------------|-------|------------|------|
| Area of application | Exposure route / Environmental compartment    | Effect on health             | Descriptor | Value | Unit       | Note |
|                     | Environment - freshwater                      |                              | PNEC       | 8,8   | mg/l       |      |
|                     | Environment - marine                          |                              | PNEC       | 0,88  | mg/l       |      |
|                     | Environment - sediment, freshwater            |                              | PNEC       | 34,6  | mg/kg dw   |      |
|                     | Environment - soil                            |                              | PNEC       | 2,8   | mg/kg dw   |      |
|                     | Environment - sewage treatment plant          |                              | PNEC       | 463   | mg/l       |      |
|                     | Environment - sediment, marine                |                              | PNEC       | 3,46  | mg/kg dw   |      |
|                     | Environment - sporadic (intermittent) release |                              | PNEC       | 9,1   | mg/l       |      |
|                     | Environment - soil                            |                              | PNEC       | 2,33  | mg/kg      |      |
|                     | Environment - oral (animal feed)              |                              | PNEC       | 20    | mg/kg      |      |
| Consumer            | Human - inhalation                            | Long term, local effects     | DNEL       | 123   | mg/m3      |      |
| Consumer            | Human - dermal                                | Short term, systemic effects | DNEL       | 44,5  | mg/kg bw/d |      |
| Consumer            | Human - inhalation                            | Short term, systemic effects | DNEL       | 426   | mg/m3      |      |
| Consumer            | Human - oral                                  | Short term, systemic effects | DNEL       | 13,4  | mg/kg bw/d |      |
| Consumer            | Human - inhalation                            | Short term, local effects    | DNEL       | 147   | mg/m3      |      |
| Consumer            | Human - dermal                                | Long term, systemic effects  | DNEL       | 38    | mg/kg bw/d |      |
| Consumer            | Human - inhalation                            | Long term, systemic effects  | DNEL       | 49    | mg/m3      |      |
| Consumer            | Human - oral                                  | Long term, systemic effects  | DNEL       | 3,2   | mg/kg bw/d |      |
| Workers / employees | Human - dermal                                | Short term, systemic effects | DNEL       | 89    | mg/kg bw/d |      |
| Workers / employees | Human - inhalation                            | Short term, systemic effects | DNEL       | 663   | mg/m3      |      |



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|---------------------|--------------------|-----------------------------|------|-----|------------|--|
| Workers / employees | Human - inhalation | Short term, local effects   | DNEL | 246 | mg/m3      |  |
| Workers / employees | Human - dermal     | Long term, systemic effects | DNEL | 75  | mg/kg bw/d |  |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 98  | mg/m3      |  |

| Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl) |  |                             |            |        |              |      |
|--|--|-----------------------------|------------|--------|--------------|------|
| Area of application                                  | Exposure route / Environmental compartment           | Effect on health            | Descriptor | Value  | Unit         | Note |
|  | Environment - freshwater                             |                             | PNEC       | 0,007  | mg/l         |      |
|  | Environment - marine                                 |                             | PNEC       | 0,0007 | mg/l         |      |
|  | Environment - water, sporadic (intermittent) release |                             | PNEC       | 0,024  | mg/l         |      |
|  | Environment - sediment, freshwater                   |                             | PNEC       | 0,195  | mg/kg dw     |      |
|  | Environment - soil                                   |                             | PNEC       | 0,0348 | mg/kg dw     |      |
|  | Environment - sewage treatment plant                 |                             | PNEC       | 830    | mg/l         |      |
|  | Environment - sediment, marine                       |                             | PNEC       | 0,0195 | mg/kg dw     |      |
| Consumer   | Human - inhalation                                   | Long term, systemic effects | DNEL       | 21,7   | mg/m3        |      |
| Consumer   | Human - dermal                                       | Long term, systemic effects | DNEL       | 2,5    | mg/kg bw/d   |      |
| Consumer   | Human - dermal                                       | Long term, local effects    | DNEL       | 0,056  | mg/cm2       |      |
| Consumer   | Human - oral   | Long term, systemic effects | DNEL       | 6,25   | mg/kg bw/day |      |
| Workers / employees                                  | Human - dermal                                       | Long term, systemic effects | DNEL       | 4,16   | mg/kg bw/d   |      |
| Workers / employees                                  | Human - dermal                                       | Long term, local effects    | DNEL       | 0,09   | mg/cm2       |      |
| Workers / employees                                  | Human - inhalation                                   | Long term, systemic effects | DNEL       | 73,4   | mg/m3        |      |

| 1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates (salts) |  |                             |            |       |            |      |
|---|--|-----------------------------|------------|-------|------------|------|
| Area of application   | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit       | Note |
|   | Environment - freshwater                   |                             | PNEC       | 0,017 | mg/l       |      |
|   | Environment - sediment, freshwater         |                             | PNEC       | 1,7   | mg/kg dw   |      |
|   | Environment - marine                       |                             | PNEC       | 0,002 | mg/l       |      |
|   | Environment - sediment, marine             |                             | PNEC       | 0,17  | mg/kg dw   |      |
|   | Environment - sewage treatment plant       |                             | PNEC       | 10    | mg/l       |      |
|   | Environment - soil                         |                             | PNEC       | 0,331 | mg/kg dw   |      |
| Consumer  | Human - inhalation                         | Long term, systemic effects | DNEL       | 2,17  | mg/m3      |      |
| Consumer  | Human - dermal                             | Long term, systemic effects | DNEL       | 56,25 | mg/kg bw/d |      |
| Consumer  | Human - oral                               | Long term, systemic effects | DNEL       | 1,25  | mg/kg bw/d |      |



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|                     |                    |                             |      |       |            |  |
|---------------------|--------------------|-----------------------------|------|-------|------------|--|
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 8,72  | mg/m3      |  |
| Workers / employees | Human - dermal     | Long term, systemic effects | DNEL | 112,5 | mg/kg bw/d |  |

| Decamethylcyclopentasiloxane |  |                              |            |         |            |      |
|------------------------------|--|------------------------------|------------|---------|------------|------|
| Area of application          | Exposure route / Environmental compartment | Effect on health             | Descriptor | Value   | Unit       | Note |
|                              | Environment - freshwater                   |                              | PNEC       | 0,0012  | mg/l       |      |
|                              | Environment - marine                       |                              | PNEC       | 0,00012 | mg/l       |      |
|                              | Environment - sediment, freshwater         |                              | PNEC       | 11      | mg/kg      |      |
|                              | Environment - sediment, marine             |                              | PNEC       | 1,1     | mg/kg      |      |
|                              | Environment - soil                         |                              | PNEC       | 2,54    | mg/kg      |      |
|                              | Environment - sewage treatment plant       |                              | PNEC       | 10      | mg/l       |      |
|                              | Environment - oral (animal feed)           |                              | PNEC       | 16      | mg/kg      |      |
| Consumer                     | Human - inhalation                         | Short term, systemic effects | DNEL       | 17,3    | mg/m3      |      |
| Consumer                     | Human - inhalation                         | Short term, local effects    | DNEL       | 4,3     | mg/m3      |      |
| Consumer                     | Human - inhalation                         | Long term, systemic effects  | DNEL       | 17,3    | mg/m3      |      |
| Consumer                     | Human - inhalation                         | Long term, local effects     | DNEL       | 4,3     | mg/m3      |      |
| Consumer                     | Human - oral                               | Short term, systemic effects | DNEL       | 5       | mg/kg bw/d |      |
| Consumer                     | Human - oral                               | Long term, systemic effects  | DNEL       | 5       | mg/kg bw/d |      |
| Workers / employees          | Human - inhalation                         | Short term, systemic effects | DNEL       | 97,3    | mg/m3      |      |
| Workers / employees          | Human - inhalation                         | Short term, local effects    | DNEL       | 24,2    | mg/m3      |      |
| Workers / employees          | Human - inhalation                         | Long term, systemic effects  | DNEL       | 97,3    | mg/m3      |      |
| Workers / employees          | Human - inhalation                         | Long term, local effects     | DNEL       | 24,2    | mg/m3      |      |

| Dodecamethylcyclohexasiloxane |  |                              |            |       |            |      |
|-------------------------------|--|------------------------------|------------|-------|------------|------|
| Area of application           | Exposure route / Environmental compartment | Effect on health             | Descriptor | Value | Unit       | Note |
|                               | Environment - sediment, freshwater         |                              | PNEC       | 2,826 | mg/kg dw   |      |
|                               | Environment - sediment, marine             |                              | PNEC       | 0,282 | mg/kg dw   |      |
|                               | Environment - soil                         |                              | PNEC       | 3,336 | mg/kg dw   |      |
|                               | Environment - sewage treatment plant       |                              | PNEC       | 1     | mg/l       |      |
| Consumer                      | Human - oral                               | Short term, systemic effects | DNEL       | 1,7   | mg/kg bw/d |      |
| Consumer                      | Human - inhalation                         | Short term, local effects    | DNEL       | 1,5   | mg/m3      |      |
| Consumer                      | Human - inhalation                         | Long term, systemic effects  | DNEL       | 2,7   | mg/m3      |      |

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|                     |                    |                             |      |      |            |  |
|---------------------|--------------------|-----------------------------|------|------|------------|--|
| Consumer            | Human - oral       | Long term, systemic effects | DNEL | 1,7  | mg/kg bw/d |  |
| Consumer            | Human - inhalation | Long term, local effects    | DNEL | 0,3  | mg/m3      |  |
| Workers / employees | Human - inhalation | Short term, local effects   | DNEL | 6,1  | mg/m3      |  |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 11   | mg/m3      |  |
| Workers / employees | Human - inhalation | Long term, local effects    | DNEL | 1,22 | mg/m3      |  |

| Octamethylcyclotetrasiloxane |  |                              |            |       |              |      |
|------------------------------|--|------------------------------|------------|-------|--------------|------|
| Area of application          | Exposure route / Environmental compartment | Effect on health             | Descriptor | Value | Unit         | Note |
|                              | Environment - freshwater                   |                              | PNEC       | 1,5   | µg/l         |      |
|                              | Environment - sewage treatment plant       |                              | PNEC       | 10    | mg/l         |      |
|                              | Environment - soil                         |                              | PNEC       | 0,54  | mg/kg        |      |
|                              | Environment - sediment, freshwater         |                              | PNEC       | 3     | mg/kg        |      |
|                              | Environment - marine                       |                              | PNEC       | 0,15  | µg/l         |      |
|                              | Environment - sediment, marine             |                              | PNEC       | 0,3   | mg/kg        |      |
|                              | Environment - oral (animal feed)           |                              | PNEC       | 41    | mg/kg feed   |      |
| Consumer                     | Human - oral                               | Short term, systemic effects | DNEL       | 3,7   | mg/kg bw/day |      |
| Consumer                     | Human - oral                               | Long term, systemic effects  | DNEL       | 3,7   | mg/kg bw/day |      |
| Consumer                     | Human - inhalation                         | Short term, systemic effects | DNEL       | 13    | mg/m3        |      |
| Consumer                     | Human - inhalation                         | Short term, local effects    | DNEL       | 13    | mg/m3        |      |
| Consumer                     | Human - inhalation                         | Long term, systemic effects  | DNEL       | 13    | mg/m3        |      |
| Consumer                     | Human - inhalation                         | Long term, local effects     | DNEL       | 13    | mg/kg        |      |
| Workers / employees          | Human - inhalation                         | Short term, local effects    | DNEL       | 73    | mg/m3        |      |
| Workers / employees          | Human - inhalation                         | Short term, systemic effects | DNEL       | 73    | mg/m3        |      |
| Workers / employees          | Human - inhalation                         | Long term, local effects     | DNEL       | 73    | mg/m3        |      |
| Workers / employees          | Human - inhalation                         | Long term, systemic effects  | DNEL       | 73    | mg/m3        |      |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage. \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance

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can cause sensitisation of the skin (Directive 2004/37/CE).

(IRL) OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). |

OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |

BLV = Biological limit value |

Other information: Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

(M) OELV-8h = Occupational Exposure Limit Value - 8 h (8-hour reference period as a time-weighted average)

[9] = Inhalable fraction (S.L.424.24), [10] = Respirable fraction (S.L.424.24).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). |

OELV-ST = Occupational Exposure Limit Value - Short-term (15-minute reference period)

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).

[8] = Short-term exposure limit value in relation to a reference period of 1 minute. (S.L.424.24), [9] = Inhalable fraction (S.L.424.24), [10] = Respirable fraction (S.L.424.24) |

BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) |

Other information: Skin = Possibility of a significant uptake through the skin.

[11] = When selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds. (S.L.424.24), [12] = The mist is defined as the thoracic fraction.

(S.L.424.24), [13] = Established in accordance with the Annex to Directive 91/322/EEC. (S.L.424.24), [14] = During exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the OELV. (S.L.424.24).

(EU13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (EU14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

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Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective gloves made of butyl (EN ISO 374).

Minimum layer thickness in mm:

> 0,5

Permeation time (penetration time) in minutes:

> 120

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |  |
|---|--|
| Physical state:   | Liquid   |
| Colour:   | Yellow, Green  |
| Odour:  | Fruity   |
| Melting point/freezing point:                             | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | There is no information available on this parameter. |
| Flammability:   | There is no information available on this parameter. |
| Lower explosion limit:                                    | There is no information available on this parameter. |
| Upper explosion limit:                                    | There is no information available on this parameter. |
| Flash point:  | There is no information available on this parameter. |
| Auto-ignition temperature:                                | There is no information available on this parameter. |
| Decomposition temperature:                                | There is no information available on this parameter. |
| pH:   | 5  |
| Kinematic viscosity:                                      | There is no information available on this parameter. |
| Solubility:   | Mixable  |
| Partition coefficient n-octanol/water (log value):        | Does not apply to mixtures.                          |
| Vapour pressure:  | There is no information available on this parameter. |
| Density and/or relative density:                          | 1 g/ml   |
| Relative vapour density:                                  | There is no information available on this parameter. |
| Particle characteristics:                                 | Does not apply to liquids.                           |

### 9.2 Other information

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No information available at present.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

None known

### 10.5 Incompatible materials

None known

### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Possibly more information on health effects, see Section 2.1 (classification).

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| Toxicity / effect   | Endpoint | Value | Unit    | Organism | Test method  | Notes                     |
|---|----------|-------|---------|----------|--|---------------------------|
| Acute toxicity, by oral route:                                | ATE      | >2000 | mg/kg   |          |  | calculated value          |
| Acute toxicity, by dermal route:                              |          |       |         |          |  | n.d.a.                    |
| Acute toxicity, by inhalation:                                | ATE      | >20   | mg/l/4h |          |  | calculated value, Vapours |
| Acute toxicity, by inhalation:                                | ATE      | >5    | mg/l/4h |          |  | calculated value, Aerosol |
| Skin corrosion/irritation:                                    |          |       |         |          |  | n.d.a.                    |
| Serious eye damage/irritation:                                |          |       |         |          | OECD 437 (Bovine Corneal Opacity + Permeability Test for Identif. Ocular Corros. + Severe Irritants) | Non-caustic               |
| Respiratory or skin sensitisation:                            |          |       |         |          |  | n.d.a.                    |
| Germ cell mutagenicity:                                       |          |       |         |          |  | n.d.a.                    |
| Carcinogenicity:  |          |       |         |          |  | n.d.a.                    |
| Reproductive toxicity:  |          |       |         |          |  | n.d.a.                    |
| Specific target organ toxicity - single exposure (STOT-SE):   |          |       |         |          |  | n.d.a.                    |
| Specific target organ toxicity - repeated exposure (STOT-RE): |          |       |         |          |  | n.d.a.                    |
| Aspiration hazard:  |          |       |         |          |  | n.d.a.                    |
| Symptoms:   |          |       |         |          |  | n.d.a.                    |

#### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even-numbered)-acyl derivs., hydroxides, inner salts

| Toxicity / effect                | Endpoint | Value | Unit  | Organism | Test method                      | Notes |
|----------------------------------|----------|-------|-------|----------|----------------------------------|-------|
| Acute toxicity, by oral route:   | LD50     | 2335  | mg/kg | Rat      | OECD 401 (Acute Oral Toxicity)   |       |
| Acute toxicity, by dermal route: | LD50     | >2000 | mg/kg | Rat      | OECD 402 (Acute Dermal Toxicity) |       |

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|   |      |     |       |                        |  |                                 |
|---|------|-----|-------|------------------------|--|---------------------------------|
| Skin corrosion/irritation:  |      |     |       | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion)                   | Mild irritant                   |
| Serious eye damage/irritation:                                      |      |     |       | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                      | Risk of serious damage to eyes. |
| Respiratory or skin sensitisation:                                  |      |     |       | Guinea pig             | OECD 406 (Skin Sensitisation)                                  | Not sensitising                 |
| Germ cell mutagenicity:   |      |     |       | Salmonella typhimurium | (Ames-Test)  | Negative                        |
| Germ cell mutagenicity:   |      |     |       |                        | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)          | Negative                        |
| Germ cell mutagenicity:   |      |     |       | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)             | Negative                        |
| Carcinogenicity:  |      |     |       |                        |  | Negative                        |
| Reproductive toxicity:  | NOEL | 100 | mg/kg | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)               |                                 |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOEL | 247 | mg/kg | Rat                    | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |                                 |

| <b>2-Butoxyethanol</b>             |                 |              |             |                        |  |                                     |
|------------------------------------|-----------------|--------------|-------------|------------------------|--|-------------------------------------|
| <b>Toxicity / effect</b>           | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>        | <b>Test method</b>   | <b>Notes</b>                        |
| Acute toxicity, by oral route:     | ATE             | 1200         | mg/kg       |                        |  |                                     |
| Acute toxicity, by dermal route:   | LD50            | 2275         | mg/kg       | Rabbit                 | OECD 402 (Acute Dermal Toxicity)                           |                                     |
| Acute toxicity, by inhalation:     | ATE             | 3            | mg/l        |                        |  | Vapours                             |
| Skin corrosion/irritation:         |                 |              |             | Rabbit                 | Regulation (EC) 440/2008 B.4 (DERMAL IRRITATION/CORROSION) | Skin Irrit. 2, Product removes fat. |
| Serious eye damage/irritation:     |                 |              |             | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                  | Eye Irrit. 2                        |
| Respiratory or skin sensitisation: |                 |              |             | Guinea pig             | OECD 406 (Skin Sensitisation)                              | No (skin contact)                   |
| Germ cell mutagenicity:            |                 |              |             | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)         | Negative                            |
| Germ cell mutagenicity:            |                 |              |             | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                 | Negative                            |
| Germ cell mutagenicity:            |                 |              |             |                        | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)   | Negative                            |
| Germ cell mutagenicity:            |                 |              |             |                        | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)      | Negative                            |
| Carcinogenicity:                   |                 |              |             | Rat                    | OECD 451 (Carcinogenicity Studies)                         | Negative                            |



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|   |       |      |            |        |  |   |
|---|-------|------|------------|--------|--|---|
| Carcinogenicity:  | NOAEC | 125  | ppm        | Mouse  | OECD 451 (Carcinogenicity Studies)                             | Negative  |
| Reproductive toxicity:  | NOAEL | 720  | mg/kg bw/d |        |  |   |
| Aspiration hazard:  |       |      |            |        |  | No  |
| Symptoms:   |       |      |            |        |  | acidosis, ataxia, breathing difficulties, respiratory distress, drowsiness, unconsciousness, annoyance, coughing, headaches, gastrointestinal disturbances, insomnia, mucous membrane irritation, dizziness, nausea |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:   | NOAEL | <69  | mg/kg bw/d | Rat    | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |   |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal: | NOAEL | >150 | mg/kg bw/d | Rabbit | OECD 411 (Subchronic Dermal Toxicity - 90-day Study)           |   |

| Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl) |          |       |       |            |  |                      |
|--|----------|-------|-------|------------|--|----------------------|
| Toxicity / effect                                    | Endpoint | Value | Unit  | Organism   | Test method  | Notes                |
| Acute toxicity, by oral route:                       | LD50     | >5000 | mg/kg | Rat        |  |                      |
| Acute toxicity, by dermal route:                     | LD50     | >2000 | mg/kg | Rabbit     |  |                      |
| Skin corrosion/irritation:                           |          |       |       | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)       | Irritant             |
| Serious eye damage/irritation:                       |          |       |       | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)          | Intensively irritant |
| Respiratory or skin sensitisation:                   |          |       |       | Guinea pig | OECD 406 (Skin Sensitisation)                      | Not sensitising      |
| Germ cell mutagenicity:                              |          |       |       |            | OECD 471 (Bacterial Reverse Mutation Test)         | Negative             |
| Germ cell mutagenicity:                              |          |       |       |            | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative             |
| Carcinogenicity:                                     |          |       |       | Rat        |  | Negative             |
| Reproductive toxicity:                               | NOAEL    | 1000  | mg/kg | Rat        | OECD 414 (Prenatal Developmental Toxicity Study)   |                      |



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|   |       |      |         |  |  |  |
|---|-------|------|---------|--|--|--|
| Symptoms:   |       |      |         |  |  | eyes, reddened, watering eyes, reddening of the skin, blisters by skin-contact, stomach pain |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | >750 | mg/kg/d |  | OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) |  |

**1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates (salts)**

| Toxicity / effect   | Endpoint | Value | Unit       | Organism   | Test method  | Notes                          |
|---|----------|-------|------------|------------|--|--------------------------------|
| Acute toxicity, by oral route:                                      | LD50     | >2000 | mg/kg      | Mouse      | OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)      |                                |
| Acute toxicity, by dermal route:                                    | LD50     | >2000 | mg/kg      | Rabbit     | OECD 402 (Acute Dermal Toxicity)                               |                                |
| Skin corrosion/irritation:  |          |       |            | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)                   | Skin Irrit. 2                  |
| Serious eye damage/irritation:                                      |          |       |            | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)                      | Eye Dam. 1                     |
| Respiratory or skin sensitisation:                                  |          |       |            | Guinea pig |  | Not sensitising                |
| Germ cell mutagenicity:   |          |       |            |            | OECD 471 (Bacterial Reverse Mutation Test)                     | Negative                       |
| Germ cell mutagenicity:   |          |       |            |            | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)       | Negative, Analogous conclusion |
| Germ cell mutagenicity:   |          |       |            | Mouse      | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)          | Negative, Analogous conclusion |
| Reproductive toxicity:  | NOAEL    | 1000  | mg/kg bw/d | Rat        | OECD 414 (Prenatal Developmental Toxicity Study)               | Analogous conclusion           |
| Symptoms:   |          |       |            |            |  | gastrointestinal disturbances  |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL    | 500   | mg/kg      | Rat        | OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) |                                |

**Siloxanes and silicones, di-Me, 3-[3-[(3-coco amidopropyl)dimethylammonio]-2-hydroxypropoxy]propyl group-terminated, acetates (salts)**

| Toxicity / effect                | Endpoint | Value | Unit    | Organism | Test method | Notes        |
|----------------------------------|----------|-------|---------|----------|-------------|--------------|
| Acute toxicity, by oral route:   | LD50     | >5000 | mg/kg   | Rat      |             |              |
| Acute toxicity, by dermal route: | LD50     | >5000 | mg/kg   | Rat      |             |              |
| Acute toxicity, by inhalation:   | LC50     | 55-60 | mg/l/4h |          |             | Vapours      |
| Skin corrosion/irritation:       |          |       |         | Rabbit   |             | Not irritant |
| Serious eye damage/irritation:   |          |       |         | Rabbit   |             | Not irritant |

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|                                    |  |  |  |  |             |                                       |
|------------------------------------|--|--|--|--|-------------|---------------------------------------|
| Respiratory or skin sensitisation: |  |  |  |  |             | Not sensitising, Analogous conclusion |
| Germ cell mutagenicity:            |  |  |  |  | (Ames-Test) | Negative                              |

**Poly[3-((2-aminoethyl)amino)propyl]methyl(dimethyl)siloxane, methoxy-terminated**

| Toxicity / effect              | Endpoint | Value | Unit  | Organism | Test method | Notes                |
|--------------------------------|----------|-------|-------|----------|-------------|----------------------|
| Acute toxicity, by oral route: | LD50     | >2000 | mg/kg | Rat      |             | Analogous conclusion |

**Decamethylcyclopentasiloxane**

| Toxicity / effect   | Endpoint | Value  | Unit       | Organism               | Test method  | Notes             |
|---|----------|--------|------------|------------------------|--|-------------------|
| Acute toxicity, by oral route:  | LD50     | >5000  | mg/kg      | Rat                    | OECD 401 (Acute Oral Toxicity)   |                   |
| Acute toxicity, by dermal route:                                      | LD50     | >2000  | mg/kg      | Rabbit                 | OECD 402 (Acute Dermal Toxicity)   |                   |
| Acute toxicity, by dermal route:                                      | LD50     | > 2000 | mg/kg      | Rat                    | OECD 402 (Acute Dermal Toxicity)   |                   |
| Acute toxicity, by inhalation:  | LC50     | 8,67   | mg/l/4h    | Rat                    | OECD 403 (Acute Inhalation Toxicity)   | Aerosol           |
| Skin corrosion/irritation:  |          |        |            | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion)                                       | Not irritant      |
| Serious eye damage/irritation:  |          |        |            | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)  | Not irritant      |
| Respiratory or skin sensitisation:                                    |          |        |            | Mouse                  | OECD 429 (Skin Sensitisation - Local Lymph Node Assay)                             | No (skin contact) |
| Germ cell mutagenicity:   |          |        |            | Mammalian              | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)                           | Negative          |
| Germ cell mutagenicity:   |          |        |            | Mouse                  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)                              | Negative          |
| Germ cell mutagenicity:   |          |        |            | Rat                    | OECD 474 (Mammalian Erythrocyte Micronucleus Test)                                 | Negative vapour   |
| Germ cell mutagenicity:   |          |        |            | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)   | Negative          |
| Germ cell mutagenicity:   |          |        |            | Rat                    | OECD 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells In Vivo) | Negative          |
| Carcinogenicity:  |          |        |            |                        |  | Negative          |
| Reproductive toxicity:  |          |        |            | Rat                    |  | Negative          |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:   | NOAEL    | >=1000 | mg/kg bw/d | Rat                    | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)                     |                   |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal: | NOAEL    | >=1600 | mg/kg bw/d | Rat                    | OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)                                  |                   |

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|   |       |       |           |     |  |         |
|---|-------|-------|-----------|-----|--|---------|
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | >=160 | mg/l/6h/d | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Vapours |
|---|-------|-------|-----------|-----|--|---------|

| <b>Dodecamethylcyclohexasiloxane</b>                                |          |       |            |                        |   |                   |
|---|----------|-------|------------|------------------------|---|-------------------|
| Toxicity / effect   | Endpoint | Value | Unit       | Organism               | Test method   | Notes             |
| Acute toxicity, by oral route:                                      | LD50     | >2000 | mg/kg      | Rat                    | OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)   |                   |
| Acute toxicity, by dermal route:                                    | LD50     | >2000 | mg/kg      | Rat                    | OECD 402 (Acute Dermal Toxicity)  |                   |
| Skin corrosion/irritation:  |          |       |            | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion)  | Not irritant      |
| Serious eye damage/irritation:                                      |          |       |            | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)   | Not irritant      |
| Respiratory or skin sensitisation:                                  |          |       |            | Guinea pig             | OECD 406 (Skin Sensitisation)   | No (skin contact) |
| Germ cell mutagenicity:   |          |       |            | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)  | Negative          |
| Germ cell mutagenicity:   |          |       |            | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)  | Negative          |
| Specific target organ toxicity - repeated exposure (STOT-RE):       | NOAEL    | 0,15  | mg/kg bw/d | Rat                    | OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)                                      |                   |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL    | 1000  | mg/kg      | Rat                    | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Development. Tox. Screening Test) |                   |

| <b>Octamethylcyclotetrasiloxane</b> |          |       |         |                        |   |                 |
|-------------------------------------|----------|-------|---------|------------------------|---|-----------------|
| Toxicity / effect                   | Endpoint | Value | Unit    | Organism               | Test method   | Notes           |
| Acute toxicity, by oral route:      | LD50     | 4800  | mg/kg   | Rat                    | OECD 401 (Acute Oral Toxicity)                        |                 |
| Acute toxicity, by dermal route:    | LD50     | >2375 | mg/kg   | Rat                    | OECD 402 (Acute Dermal Toxicity)                      |                 |
| Acute toxicity, by inhalation:      | LC50     | 36    | mg/l/4h | Rat                    | OECD 403 (Acute Inhalation Toxicity)                  |                 |
| Skin corrosion/irritation:          |          |       |         | Rat                    | OECD 404 (Acute Dermal Irritation/Corrosion)          | Not irritant    |
| Serious eye damage/irritation:      |          |       |         | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)             | Not irritant    |
| Respiratory or skin sensitisation:  |          |       |         | Guinea pig             | OECD 406 (Skin Sensitisation)                         | Not sensitizing |
| Germ cell mutagenicity:             |          |       |         | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)            | Negative        |
| Germ cell mutagenicity:             |          |       |         | Mouse                  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative        |

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|   |       |     |            |        |  |            |
|---|-------|-----|------------|--------|--|------------|
| Carcinogenicity:  | NOAEL | 150 | mg/kg      | Rat    | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | inhalation |
| Reproductive toxicity:  | NOAEL |     |            | Rat    | OECD 416 (Two-generation Reproduction Toxicity Study)        | Repr. 2    |
| Reproductive toxicity (Developmental toxicity):                         | NOAEL | 300 | ppm        | Rat    | OECD 414 (Prenatal Developmental Toxicity Study)             |            |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal:   | NOAEL | 960 | mg/kg bw/d | Rabbit | OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)            | (21 d)     |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 150 | mg/kg      | Rat    | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) |            |

## 11.2. Information on other hazards

| NanoMagicShampoo<br>Art.: 206999 |          |       |      |          |             |   |
|----------------------------------|----------|-------|------|----------|-------------|---|
| Toxicity / effect                | Endpoint | Value | Unit | Organism | Test method | Notes   |
| Endocrine disrupting properties: |          |       |      |          |             | Does not apply to mixtures.   |
| Other information:               |          |       |      |          |             | No other relevant information available on adverse effects on health. |

## SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

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|----------------------------------|----------|------|-------|------|----------|-------------|--------|
| Toxicity / effect                | Endpoint | Time | Value | Unit | Organism | Test method | Notes  |
| 12.1. Toxicity to fish:          |          |      |       |      |          |             | n.d.a. |
| 12.1. Toxicity to daphnia:       |          |      |       |      |          |             | n.d.a. |
| 12.1. Toxicity to algae:         |          |      |       |      |          |             | n.d.a. |

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|  |     |  |  |   |  |  |  |
|--|-----|--|--|---|--|--|--|
| 12.2. Persistence and degradability:     |     |  |  |   |  |  | The surfactant(s) contained in this mixture complies (complies) 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. |
| 12.3. Bioaccumulative potential:         |     |  |  |   |  |  | n.d.a.   |
| 12.4. Mobility in soil:                  |     |  |  |   |  |  | n.d.a.   |
| 12.5. Results of PBT and vPvB assessment |     |  |  |   |  |  | n.d.a.   |
| 12.6. Endocrine disrupting properties:   |     |  |  |   |  |  | Does not apply to mixtures.  |
| 12.7. Other adverse effects:             |     |  |  |   |  |  | No information available on other adverse effects on the environment.  |
| Other information:                       |     |  |  |   |  |  | DOC-elimination degree (complexing organic substance) >= 80%/28d: n.a.   |
| Other information:                       | AOX |  |  | % |  |  | According to the recipe, contains no AOX.  |

| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18(even-numbered)-acyl derivs., hydroxides, inner salts |           |      |       |      |                     |   |       |
|--|-----------|------|-------|------|---------------------|---|-------|
| Toxicity / effect  | Endpoint  | Time | Value | Unit | Organism            | Test method                                     | Notes |
| 12.1. Toxicity to fish:  | LC50      | 96h  | 1,11  | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test)            |       |
| 12.1. Toxicity to fish:  | NOEC/NOEL | >60d | 0,135 | mg/l | Oncorhynchus mykiss | OECD 210 (Fish, Early-Life Stage Toxicity Test) |       |

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|  |           |     |      |      |                         |  |                                     |
|--|-----------|-----|------|------|-------------------------|--|-------------------------------------|
| 12.1. Toxicity to daphnia:               | EC50      | 48h | 6,5  | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)         |                                     |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d | 0,32 | mg/l | Daphnia magna           | OECD 211 (Daphnia magna Reproduction Test)               |                                     |
| 12.1. Toxicity to daphnia:               | LOEC/LOEL | 21d | 0,56 | mg/l | Daphnia magna           | OECD 211 (Daphnia magna Reproduction Test)               |                                     |
| 12.1. Toxicity to algae:                 | EC50      | 72h | ~1,5 | mg/l | Desmodesmus subspicatus | DIN 38412 T.9  |                                     |
| 12.2. Persistence and degradability:     |           | 28d | 91,6 | %    |                         | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) |                                     |
| 12.3. Bioaccumulative potential:         | Log Kow   |     | 4,21 |      |                         |  | calculated                          |
| 12.3. Bioaccumulative potential:         | BCF       |     | <71  |      |                         |  |                                     |
| 12.5. Results of PBT and vPvB assessment |           |     |      |      |                         |  | No PBT substance, No vPvB substance |

## 2-Butoxyethanol

| Toxicity / effect                    | Endpoint  | Time | Value | Unit | Organism                         | Test method  | Notes                 |
|--------------------------------------|-----------|------|-------|------|----------------------------------|--|-----------------------|
| 12.1. Toxicity to fish:              | LC50      | 96h  | 1474  | mg/l | Oncorhynchus mykiss              | OECD 203 (Fish, Acute Toxicity Test)                               |                       |
| 12.1. Toxicity to fish:              | NOEC/NOEL | 21d  | >100  | mg/l | Brachydanio rerio                | OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)            |                       |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | 1550  | mg/l | Daphnia magna                    | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                       |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 21d  | 100   | mg/l | Daphnia magna                    | OECD 211 (Daphnia magna Reproduction Test)                         |                       |
| 12.1. Toxicity to algae:             | EC50      | 72h  | 1840  | mg/l | Pseudokirchneria lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                       |
| 12.1. Toxicity to algae:             | NOEC/NOEL | 72h  | 286   | mg/l | Pseudokirchneria lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                       |
| 12.2. Persistence and degradability: |           | 28d  | 95    | %    |                                  | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Readily biodegradable |

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|  |           |     |           |            |                    |   |                                     |
|--|-----------|-----|-----------|------------|--------------------|---|-------------------------------------|
| 12.2. Persistence and degradability:     |           | 28d | >99       | %          |                    | OECD 302 B (Inherent Biodegradability - Zahn-Wellens/EMPA Test)         | Readily biodegradable               |
| 12.3. Bioaccumulative potential:         | BCF       |     | 3,2       |            |                    |   | Slight                              |
| 12.3. Bioaccumulative potential:         | Log Pow   |     | 0,81      |            |                    | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method) | Not to be expected                  |
| 12.4. Mobility in soil:                  | H (Henry) |     | 0,0000016 | atm*m3/mol |                    |   |                                     |
| 12.5. Results of PBT and vPvB assessment |           |     |           |            |                    |   | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | EC10      | 16h | >700      | mg/l       | Pseudomonas putida | DIN 38412 T.8   |                                     |

| <b>Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)</b> |                 |             |              |             |                         |  |                       |
|---|-----------------|-------------|--------------|-------------|-------------------------|--|-----------------------|
| <b>Toxicity / effect</b>                                    | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>         | <b>Test method</b>                                       | <b>Notes</b>          |
| 12.1. Toxicity to fish:                                     | LC50            | 96h         | 2,4          | mg/l        | Oncorhynchus mykiss     | OECD 203 (Fish, Acute Toxicity Test)                     |                       |
| 12.1. Toxicity to fish:                                     | NOEC/NOEL       | 28d         | 0,32         | mg/l        | Oncorhynchus mykiss     | OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)  |                       |
| 12.1. Toxicity to daphnia:                                  | NOEC/NOEL       | 21d         | 0,07         | mg/l        | Daphnia magna           | OECD 211 (Daphnia magna Reproduction Test)               |                       |
| 12.1. Toxicity to daphnia:                                  | EC50            | 48h         | 3,2          | mg/l        | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)         |                       |
| 12.1. Toxicity to algae:                                    | EC50            | 72h         | 3,9          | mg/l        | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                  |                       |
| 12.1. Toxicity to algae:                                    | NOEC/NOEL       | 72h         | 0,3          | mg/l        | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                  |                       |
| 12.2. Persistence and degradability:                        |                 | 28d         | 92,5         | %           |                         | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential:                            | Log Pow         |             | 3,75         |             |                         |  |                       |
| 12.3. Bioaccumulative potential:                            | BCF             |             | 65,36        |             |                         |  | Low                   |
| Toxicity to bacteria:                                       | EC50            | 16h         | 6000         | mg/l        |                         | DIN 38412 T.8  |                       |

| <b>1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, diesters with vegetable-oil fatty acids, C18-unsatd., Me sulfates (salts)</b> |                 |             |              |             |                 |                    |              |
|--|-----------------|-------------|--------------|-------------|-----------------|--------------------|--------------|
| <b>Toxicity / effect</b>   | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b> | <b>Notes</b> |



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|--------------------------------------|-----------|-----|-------|------|----------------------------------|--|-----------------------|
| 12.1. Toxicity to fish:              | NOEC/NOEL | 35d | 0,686 | mg/l | Pimephales promelas              | U.S. EPA ECOTOX Database   | Analogous conclusion  |
| 12.1. Toxicity to fish:              | LC50      | 96h | >10   | mg/l | Cyprinus caprio                  | OECD 203 (Fish, Acute Toxicity Test)                               | Analogous conclusion  |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 21d | 1     | mg/l | Daphnia magna                    | U.S. EPA ECOTOX Database   | Analogous conclusion  |
| 12.1. Toxicity to daphnia:           | EC50      | 48h | >8,6  | mg/l | Daphnia magna                    | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   | Analogous conclusion  |
| 12.1. Toxicity to algae:             | NOEC/NOEL | 72h | 0,39  | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            | Analogous conclusion  |
| 12.1. Toxicity to algae:             | EC50      | 72h | 1,2   | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            | Analogous conclusion  |
| 12.2. Persistence and degradability: |           | 28d | >60   | %    |                                  | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable |
| Toxicity to bacteria:                | EC50      | 6d  | 100   | mg/l | activated sludge                 |  | Analogous conclusion  |

**Siloxanes and silicones, di-Me, 3-[3-[(3-coco amidopropyl)dimethylammonio]-2-hydroxypropoxy]propyl group-terminated, acetates (salts)**

| Toxicity / effect                    | Endpoint  | Time | Value  | Unit | Organism                         | Test method  | Notes                 |
|--------------------------------------|-----------|------|--------|------|----------------------------------|--|-----------------------|
| 12.1. Toxicity to fish:              | LC50      | 96h  | >10000 | mg/l | Pimephales promelas              | OECD 203 (Fish, Acute Toxicity Test)                               | Analogous conclusion  |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | >100   | mg/l | Daphnia magna                    | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   | Analogous conclusion  |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 21d  | 12     | mg/l | Daphnia magna                    |  |                       |
| 12.1. Toxicity to algae:             | ErC50     | 72h  | >969   | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                       |
| 12.1. Toxicity to algae:             | EC10      | 18h  | 4168   | mg/l |                                  | OECD 201 (Alga, Growth Inhibition Test)                            |                       |
| 12.2. Persistence and degradability: | DOC       | 28d  | 73     | %    |                                  | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Readily biodegradable |

**Decamethylcyclopentasiloxane**

| Toxicity / effect       | Endpoint | Time | Value | Unit | Organism            | Test method   | Notes   |
|-------------------------|----------|------|-------|------|---------------------|---|---|
| 12.1. Toxicity to fish: | LC50     | 96h  | >16   | µg/l | Oncorhynchus mykiss | OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study) | Water toxicology is above the water-solubility value. |

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|--|-----------|------|-------|-------|---------------------------------|--|---|
| 12.1. Toxicity to fish:                  | NOEC/NOEL | >60d | >14   | µg/l  | Oncorhynchus mykiss             | OECD 210 (Fish, Early-Life Stage Toxicity Test)  | Water toxicology is above the water-solubility value.90 d                           |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d  | >15   | µg/l  | Daphnia magna                   | OECD 211 (Daphnia magna Reproduction Test)   | Water toxicology is above the water-solubility value.                               |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | >2,9  | µg/l  | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)   | Water toxicology is above the water-solubility value.                               |
| 12.1. Toxicity to algae:                 | EC50      | 96h  | >12   | µg/l  | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)  | Water toxicology is above the water-solubility value.                               |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 96h  | >= 12 | µg/l  | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)  | Water toxicology is above the water-solubility value.                               |
| 12.2. Persistence and degradability:     |           | 28d  | 0,14  | %     |                                 | OECD 310 (Ready Biodegradability - CO2 in sealed vessels (Headspace Test))               | Not readily biodegradable   |
| 12.3. Bioaccumulative potential:         | BCF       |      | 7060  |       |                                 | OECD 305 (Bioconcentration - Flow-Through Fish Test)                                     | High  |
| 12.3. Bioaccumulative potential:         | Log Pow   |      | 8,023 |       |                                 | OECD 123 (Partition Coefficient (1-Octanol / Water) - Slow-Stirring Method)              | A notable biological accumulation potential has to be expected (LogPow > 3).25,3 °C |
| 12.5. Results of PBT and vPvB assessment |           |      |       |       |                                 |  | vPvB-substance, PBT-substance   |
| Toxicity to bacteria:                    | EC50      | 3h   | >2000 | mg/l  | activated sludge                | Regulation (EC) 440/2008 C.11 (BIODEGRADATION - ACTIVATED SLUDGE RESPIRATION INHIBITION) |   |
| Toxicity to annelids:                    | NOEC/NOEL |      | >=76  | mg/kg | Eisenia foetida                 |  |   |
| Water solubility:                        |           |      | <0,05 | mg/l  |                                 |  | @25°C   |

**Dodecamethylcyclohexasiloxane**

| Toxicity / effect       | Endpoint | Time | Value | Unit | Organism            | Test method | Notes |
|-------------------------|----------|------|-------|------|---------------------|-------------|-------|
| 12.1. Toxicity to fish: | LD50     | 49d  | >4,4  | µg/l | Pimephales promelas |             |       |

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|  |           |      |           |      |                                  |  |   |
|--|-----------|------|-----------|------|----------------------------------|--|---|
| 12.1. Toxicity to fish:                  | NOEC/NOEL | >60d | >=14      | µg/l | Oncorhynchus mykiss              | OECD 210 (Fish, Early-Life Stage Toxicity Test)  | 90d                                     |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d  | >4,6      | µg/l | Daphnia magna                    | OECD 211 (Daphnia magna Reproduction Test)   |   |
| 12.1. Toxicity to algae:                 | EC50      | 72h  | >2        | µg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)  |   |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | >= 2      | µg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)  |   |
| 12.2. Persistence and degradability:     |           | 28d  | 4,47      | %    |                                  | OECD 310 (Ready Biodegradability - CO2 in sealed vessels (Headspace Test))               | Not readily biodegradable CO2 evolution |
| 12.3. Bioaccumulative potential:         | Log Pow   |      | 8,87-9,45 |      |                                  |  |   |
| 12.3. Bioaccumulative potential:         | BCF       | 49d  | 1160      |      |                                  | OECD 305 (Bioconcentration - Flow-Through Fish Test)                                     |   |
| 12.5. Results of PBT and vPvB assessment |           |      |           |      |                                  |  | vPvB-substance, PBT-substance           |
| Toxicity to bacteria:                    | EC50      | 3h   | >100      | mg/l | activated sludge                 | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |   |
| Water solubility:                        |           |      | 5         | µg/l |                                  |  | 25°C                                    |

| Octamethylcyclotetrasiloxane         |           |      |          |      |                     |  |                           |
|--------------------------------------|-----------|------|----------|------|---------------------|--|---------------------------|
| Toxicity / effect                    | Endpoint  | Time | Value    | Unit | Organism            | Test method  | Notes                     |
| 12.1. Toxicity to fish:              | LC50      | 96h  | > 22     | µg/l | Oncorhynchus mykiss |  | EPA OTS 797.1400          |
| 12.1. Toxicity to fish:              | NOEC/NOEL | >60d | >=0,0044 | mg/l | Oncorhynchus mykiss |  |                           |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | > 15     | µg/l | Daphnia magna       |  | EPA OTS 797.1300          |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 21d  | >0,015   | mg/l | Daphnia magna       |  |                           |
| 12.1. Toxicity to algae:             | ErC10     | 96h  | 0,022    | mg/l |                     |  |                           |
| 12.1. Toxicity to algae:             | EC50      | 96h  | >2000    | mg/l |                     |  |                           |
| 12.2. Persistence and degradability: |           | 28d  | 3,7      | %    | activated sludge    | OECD 310 (Ready Biodegradability - CO2 in sealed vessels (Headspace Test)) | Not readily biodegradable |
| 12.3. Bioaccumulative potential:     | BCF       | 28d  | 12400    |      | Pimephales promelas |  | EPA OTS 797.1520          |

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|  |         |    |        |      |                  |          |                               |
|--|---------|----|--------|------|------------------|----------|-------------------------------|
| 12.3. Bioaccumulative potential:         | Log Pow |    | 6,98   |      |                  |          | 21,7 °C                       |
| 12.5. Results of PBT and vPvB assessment |         |    |        |      |                  |          | PBT-substance, vPvB-substance |
| Toxicity to bacteria:                    | EC50    | 3h | >10000 | mg/l | activated sludge | ISO 8192 |                               |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:  
 The waste codes are recommendations based on the scheduled use of this product.  
 Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)  
 20 01 29 detergents containing hazardous substances  
 Recommendation:  
 Sewage disposal shall be discouraged.  
 Pay attention to local and national official regulations.  
 E.g. suitable incineration plant.  
 E.g. dispose at suitable refuse site.

#### For contaminated packing material

Pay attention to local and national official regulations.  
 Empty container completely.  
 Uncontaminated packaging can be recycled.  
 Dispose of packaging that cannot be cleaned in the same manner as the substance.  
 Recommended cleaner:  
 Water

## SECTION 14: Transport information

### General statements

#### Transport by road/by rail (ADR/RID)

14.1. UN number or ID number: Not applicable  
 14.2. UN proper shipping name: Not applicable  
 14.3. Transport hazard class(es): Not applicable  
 14.4. Packing group: Not applicable  
 14.5. Environmental hazards: Not applicable  
 Tunnel restriction code: Not applicable  
 Classification code: Not applicable  
 LQ: Not applicable  
 Transport category: Not applicable

#### Transport by sea (IMDG-code)

14.1. UN number or ID number: Not applicable  
 14.2. UN proper shipping name: Not applicable  
 14.3. Transport hazard class(es): Not applicable  
 14.4. Packing group: Not applicable  
 14.5. Environmental hazards: Not applicable  
 Marine Pollutant: Not applicable  
 EmS: Not applicable  
 Segregation: Not applicable

#### Transport by air (IATA)

14.1. UN number or ID number: Not applicable  
 14.2. UN proper shipping name: Not applicable

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14.3. Transport hazard class(es): Not applicable  
14.4. Packing group: Not applicable  
14.5. Environmental hazards: Not applicable

#### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

#### 14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations.

### SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Regulation (EC) No 1907/2006, Annex XVII

Decamethylcyclopentasiloxane

Octamethylcyclotetrasiloxane

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

~ 9,8 %

#### REGULATION (EC) No 648/2004

5 % or over but less than 15 %

amphoteric surfactants

less than 5 %

non-ionic surfactants

cationic surfactants

perfumes

LINALOOL

National requirements/regulations on safety and health protection must be applied when using work equipment.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

### SECTION 16: Other information

Revised sections:

8

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

#### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used                             |
|---|--|
| Eye Irrit. 2, H319  | Classification based on toxicological analyses.    |
| Skin Irrit. 2, H315   | Classification according to calculation procedure. |
| Aquatic Chronic 3, H412   | Classification according to calculation procedure. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents.

H361f Suspected of damaging fertility.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

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H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
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.  
H412 Harmful to aquatic life with long lasting effects.

Eye Irrit. — Eye irritation  
Skin Irrit. — Skin irritation  
Aquatic Chronic — Hazardous to the aquatic environment - chronic  
Eye Dam. — Serious eye damage  
Acute Tox. — Acute toxicity - inhalation  
Acute Tox. — Acute toxicity - oral  
Skin Corr. — Skin corrosion  
Aquatic Acute — Hazardous to the aquatic environment - acute  
Flam. Liq. — Flammable liquid  
Repr. — Reproductive toxicity

#### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.  
Guidelines for the preparation of safety data sheets as amended (ECHA).  
Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).  
Safety data sheets for the constituent substances.  
ECHA Homepage - Information about chemicals.  
GESTIS Substance Database (Germany).  
German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).  
EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.  
National Lists of Occupational Exposure Limits for each country as amended.  
Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

#### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to  
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
AOX Adsorbable organic halogen compounds  
approx. approximately  
Art., Art. no. Article number  
ASTM ASTM International (American Society for Testing and Materials)  
ATE Acute Toxicity Estimate  
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
BCF Bioconcentration factor  
BSEF The International Bromine Council  
bw body weight  
CAS Chemical Abstracts Service  
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
CMR carcinogenic, mutagenic, reproductive toxic  
DMEL Derived Minimum Effect Level  
DNEL Derived No Effect Level  
DOC Dissolved organic carbon  
dw dry weight  
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)  
EC European Community  
ECHA European Chemicals Agency

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ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect  
 EEC European Economic Community  
 EINECS European Inventory of Existing Commercial Chemical Substances  
 ELINCS European List of Notified Chemical Substances  
 EN European Norms  
 EPA United States Environmental Protection Agency (United States of America)  
 ErCx, EµCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)  
 etc. et cetera  
 EU European Union  
 EVAL Ethylene-vinyl alcohol copolymer  
 Fax. Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 Koc Adsorption coefficient of organic carbon in the soil  
 Kow octanol-water partition coefficient  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC (Code) International Bulk Chemical (Code)  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 IUPAC International Union for Pure Applied Chemistry  
 LC50 Lethal Concentration to 50 % of a test population  
 LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
 Log Koc Logarithm of adsorption coefficient of organic carbon in the soil  
 Log Kow, Log Pow Logarithm of octanol-water partition coefficient  
 LQ Limited Quantities  
 MARPOL International Convention for the Prevention of Marine Pollution from Ships  
 n.a. not applicable  
 n.av. not available  
 n.c. not checked  
 n.d.a. no data available  
 NIOSH National Institute for Occupational Safety and Health (USA)  
 NLP No-longer-Polymer  
 NOEC, NOEL No Observed Effect Concentration/Level  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 OSHA Occupational Safety and Health Administration (USA)  
 PBT persistent, bioaccumulative and toxic  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 ppm parts per million  
 PVC Polyvinylchloride  
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
 SVHC Substances of Very High Concern  
 Tel. Telephone  
 TOC Total organic carbon  
 UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
 VOC Volatile organic compounds  
 vPvB very persistent and very bioaccumulative  
 wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.



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No responsibility.

These statements were made by:

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