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## 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

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

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

Detergent for wheels

**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)**

| Hazard class | Hazard category | Hazard statement                          |
|--------------|-----------------|---|
| Acute Tox.   | 4               | H302-Harmful if swallowed.                |
| Eye Dam.     | 1               | H318-Causes serious eye damage.           |
| Skin Sens.   | 1               | H317-May cause an allergic skin reaction. |

#### 2.2 Label elements

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



**Danger**

H302-Harmful if swallowed. H318-Causes serious eye damage. H317-May cause an allergic skin reaction.

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

P261-Avoid breathing vapours or spray. 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. P310-Immediately call a POISON CENTER / doctor.

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

D-Glucopyranose, oligomer, decyl octyl glycoside  
 Alcohols, C12-14, ethoxylated, sulfates, sodium salts  
 Citronellol  
 Ammonium mercaptoacetate

### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

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

|   |   |
|---|---|
| <b>Ammonium mercaptoacetate</b>   |   |
| <b>Registration number (REACH)</b>  | 01-2119531489-31-XXXX   |
| <b>Index</b>  | ---   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 226-540-9   |
| <b>CAS</b>  | 5421-46-5   |
| <b>content %</b>  | 10-<25  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Met. Corr. 1, H290<br>Acute Tox. 3, H301<br>Skin Sens. 1B, H317 |

|  |                       |
|--|-----------------------|
| <b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b> |                       |
| <b>Registration number (REACH)</b>                           | 01-2119488639-16-XXXX |
| <b>Index</b>   | ---                   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                | 500-234-8             |
| <b>CAS</b>   | 68891-38-3            |
| <b>content %</b>   | 1-<5                  |

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|   |  |
|---|--|
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 |
| <b>Specific Concentration Limits and ATE</b>                                  | Eye Dam. 1, H318: >=10 %<br>Eye Irrit. 2, H319: >=5 %              |

|   |                       |
|---|-----------------------|
| <b>D-Glucopyranose, oligomer, decyl octyl glycoside</b>                       |                       |
| <b>Registration number (REACH)</b>  | 01-2119488530-36-XXXX |
| <b>Index</b>  | ---                   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 500-220-1             |
| <b>CAS</b>  | 68515-73-1            |
| <b>content %</b>  | 1-<3                  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Eye Dam. 1, H318      |

|   |  |
|---|--|
| <b>Citronellol</b>  |  |
| <b>Registration number (REACH)</b>  | 01-2119453995-23-XXXX  |
| <b>Index</b>  | ---  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 203-375-0  |
| <b>CAS</b>  | 106-22-9   |
| <b>content %</b>  | 0,1-<1   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317 |

|   |   |
|---|---|
| <b>(2E)-2-benzylideneoctanal</b>  |   |
| <b>Registration number (REACH)</b>  | 01-2119533092-50-XXXX   |
| <b>Index</b>  | ---   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 639-566-4   |
| <b>CAS</b>  | 165184-98-5   |
| <b>content %</b>  | 0,01-<0,1   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 2, H411 |

|   |   |
|---|---|
| <b>Bronopol (INN)</b>   |   |
| <b>Registration number (REACH)</b>  | ---   |
| <b>Index</b>  | 603-085-00-8  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 200-143-0   |
| <b>CAS</b>  | 52-51-7   |
| <b>content %</b>  | <0,1  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1) |
| <b>Specific Concentration Limits and ATE</b>                                  | ATE (dermal): 1100 mg/kg  |

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.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

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

### **Inhalation**

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. Call a doctor immediately, keep datasheet at hand

### **Eye contact**

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Protect uninjured eye.

Follow-up examination by an ophthalmologist.

### **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

Irritation of the eyes

reddening of the skin

Allergic reaction

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

Symptomatic treatment.

## **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/foam/CO2/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 sulphur

Oxides of nitrogen

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.

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Leave the danger zone if possible, use existing emergency plans if necessary.  
 Keep unprotected persons away.  
 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.  
 Flush residue using copious water.

### 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.  
 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

#### Ammonium mercaptoacetate

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|------------------|------------|-------|------|------|
|                     |  |                  |            |       |      |      |

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|                     |                          |                             |      |        |        |  |
|---------------------|--------------------------|-----------------------------|------|--------|--------|--|
|                     | Environment - marine     |                             | PNEC | 0,0038 | mg/l   |  |
|                     | Environment - freshwater |                             | PNEC | 0,038  | mg/l   |  |
| Workers / employees | Human - dermal           | Long term, systemic effects | DNEL | 2,06   | mg/kg  |  |
| Workers / employees | Human - dermal           | Long term, local effects    | DNEL | 0,004  | mg/cm2 |  |

| <b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b> |   |                             |            |        |                  |      |
|--|---|-----------------------------|------------|--------|------------------|------|
| Area of application  | Exposure route / Environmental compartment    | Effect on health            | Descriptor | Value  | Unit             | Note |
|  | Environment - freshwater                      |                             | PNEC       | 0,24   | mg/l             |      |
|  | Environment - periodic release                |                             | PNEC       | 0,13   | mg/l             |      |
|  | Environment - marine                          |                             | PNEC       | 0,024  | mg/l             |      |
|  | Environment - sediment, marine                |                             | PNEC       | 0,0917 | mg/kg dry weight |      |
|  | Environment - sewage treatment plant          |                             | PNEC       | 10000  | mg/l             |      |
|  | Environment - soil                            |                             | PNEC       | 0,946  | mg/kg dry weight |      |
|  | Environment - sporadic (intermittent) release |                             | PNEC       | 0,071  | mg/l             |      |
|  | Environment - sediment, freshwater            |                             | PNEC       | 0,917  | mg/kg            |      |
|  | Environment - sediment, marine                |                             | PNEC       | 0,092  | mg/kg            |      |
|  | Environment - soil                            |                             | PNEC       | 7,5    | mg/kg            |      |
| Consumer   | Human - dermal                                | Long term, local effects    | DNEL       | 0,079  | mg/cm2           |      |
| Consumer   | Human - oral                                  | Long term, systemic effects | DNEL       | 15     | mg/kg bw/day     |      |
| Consumer   | Human - dermal                                | Long term, systemic effects | DNEL       | 1650   | mg/kg bw/day     |      |
| Consumer   | Human - inhalation                            | Long term, systemic effects | DNEL       | 52     | mg/m3            |      |
| Workers / employees  | Human - dermal                                | Long term, systemic effects | DNEL       | 2750   | mg/kg bw/day     |      |
| Workers / employees  | Human - inhalation                            | Long term, systemic effects | DNEL       | 175    | mg/m3            |      |
| Workers / employees  | Human - dermal                                | Long term, local effects    | DNEL       | 0,132  | mg/cm2           |      |

| <b>D-Glucopyranose, oligomer, decyl octyl glycoside</b> |  |                  |            |       |          |      |
|---|--|------------------|------------|-------|----------|------|
| Area of application                                     | Exposure route / Environmental compartment           | Effect on health | Descriptor | Value | Unit     | Note |
|   | Environment - sediment, freshwater                   |                  | PNEC       | 1,516 | mg/kg dw |      |
|   | Environment - sediment, marine                       |                  | PNEC       | 0,152 | mg/kg dw |      |
|   | Environment - soil                                   |                  | PNEC       | 0,654 | mg/kg dw |      |
|   | Environment - water, sporadic (intermittent) release |                  | PNEC       | 0,27  | mg/l     |      |
|   | Environment - sewage treatment plant                 |                  | PNEC       | 560   | mg/l     |      |
|   | Environment - freshwater                             |                  | PNEC       | 0,176 | mg/l     |      |

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|                     |                                  |           |      |        |              |  |
|---------------------|----------------------------------|-----------|------|--------|--------------|--|
|                     | Environment - marine             |           | PNEC | 0,0176 | mg/l         |  |
|                     | Environment - oral (animal feed) |           | DNEL | 111,11 | mg/kg feed   |  |
| Consumer            | Human - dermal                   | Long term | DNEL | 357000 | mg/kg bw/day |  |
| Consumer            | Human - inhalation               | Long term | DNEL | 124    | mg/m3        |  |
| Consumer            | Human - oral                     | Long term | DNEL | 35,7   | mg/kg bw/day |  |
| Workers / employees | Human - dermal                   | Long term | DNEL | 595000 | mg/kg bw/day |  |
| Workers / employees | Human - inhalation               | Long term | DNEL | 420    | mg/m3        |  |

| <b>Citronellol</b>  |  |                             |            |         |        |      |
|---------------------|--|-----------------------------|------------|---------|--------|------|
| Area of application | Exposure route / Environmental compartment           | Effect on health            | Descriptor | Value   | Unit   | Note |
|                     | Environment - freshwater                             |                             | PNEC       | 0,0024  | mg/l   |      |
|                     | Environment - marine                                 |                             | PNEC       | 0,00024 | mg/l   |      |
|                     | Environment - sewage treatment plant                 |                             | PNEC       | 580     | mg/l   |      |
|                     | Environment - sediment, freshwater                   |                             | PNEC       | 0,0256  | mg/kg  |      |
|                     | Environment - sediment, marine                       |                             | PNEC       | 0,00256 | mg/kg  |      |
|                     | Environment - soil                                   |                             | PNEC       | 0,00371 | mg/kg  |      |
|                     | Environment - water, sporadic (intermittent) release |                             | PNEC       | 0,024   | mg/l   |      |
| Consumer            | Human - inhalation                                   | Long term, systemic effects | DNEL       | 47,8    | mg/m3  |      |
| Consumer            | Human - dermal                                       | Long term, systemic effects | DNEL       | 196,4   | mg/kg  |      |
| Consumer            | Human - oral   | Long term, systemic effects | DNEL       | 13,8    | mg/kg  |      |
| Consumer            | Human - dermal                                       | Short term, local effects   | DNEL       | 2,95    | mg/cm2 |      |
| Consumer            | Human - inhalation                                   | Long term, local effects    | DNEL       | 10      | mg/m3  |      |
| Consumer            | Human - inhalation                                   | Short term, local effects   | DNEL       | 10      | mg/m3  |      |
| Workers / employees | Human - inhalation                                   | Long term, systemic effects | DNEL       | 161,6   | mg/m3  |      |
| Workers / employees | Human - dermal                                       | Long term, systemic effects | DNEL       | 327,4   | mg/kg  |      |
| Workers / employees | Human - dermal                                       | Short term, local effects   | DNEL       | 2,95    | mg/cm2 |      |
| Workers / employees | Human - inhalation                                   | Long term, local effects    | DNEL       | 10      | mg/m3  |      |
| Workers / employees | Human - inhalation                                   | Short term, local effects   | DNEL       | 10      | mg/m3  |      |

| <b>(2E)-2-benzylideneoctanal</b> |  |                  |            |       |      |      |
|----------------------------------|--|------------------|------------|-------|------|------|
| Area of application              | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|                                  | Environment - freshwater                   |                  | PNEC       | 3     | mg/l |      |
|                                  | Environment - marine                       |                  | PNEC       | 0,003 | mg/l |      |

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|                     |                                      |                             |      |          |                       |  |
|---------------------|--------------------------------------|-----------------------------|------|----------|-----------------------|--|
|                     | Environment - sewage treatment plant |                             | PNEC | 10       | mg/l                  |  |
|                     | Environment - sediment, freshwater   |                             | PNEC | 4,7      | mg/kg                 |  |
|                     | Environment - sediment, marine       |                             | PNEC | 4,77     | mg/kg                 |  |
|                     | Environment - freshwater             |                             | PNEC | 0,00126  | mg/l                  |  |
|                     | Environment - marine                 |                             | PNEC | 0,000126 | mg/l                  |  |
|                     | Environment - sediment, freshwater   |                             | PNEC | 3,2      | mg/kg dw              |  |
|                     | Environment - sediment, marine       |                             | PNEC | 0,064    | mg/kg dw              |  |
|                     | Environment - soil                   |                             | PNEC | 0,398    | mg/kg dw              |  |
|                     | Environment - oral (animal feed)     |                             | PNEC | 6,6      | mg/kg                 |  |
| Consumer            | Human - inhalation                   | Long term, systemic effects | DNEL | 0,019    | mg/m3                 |  |
| Consumer            | Human - inhalation                   | Short term, local effects   | DNEL | 4,7      | mg/m3                 |  |
| Consumer            | Human - dermal                       | Long term, systemic effects | DNEL | 9        | mg/kg body weight/day |  |
| Consumer            | Human - dermal                       | Long term, local effects    | DNEL | 0,079    | mg/cm2                |  |
| Consumer            | Human - dermal                       | Short term, local effects   | DNEL | 0,079    | mg/cm2                |  |
| Consumer            | Human - oral                         | Long term, systemic effects | DNEL | 0,056    | mg/kg body weight/day |  |
| Workers / employees | Human - dermal                       | Short term, local effects   | DNEL | 0,525    | mg/cm2                |  |
| Workers / employees | Human - inhalation                   | Short term, local effects   | DNEL | 6,28     | mg/m3                 |  |
| Workers / employees | Human - dermal                       | Long term, systemic effects | DNEL | 18,2     | mg/kg body weight/day |  |
| Workers / employees | Human - inhalation                   | Long term, systemic effects | DNEL | 0,078    | mg/m3                 |  |
| Workers / employees | Human - dermal                       | Long term, local effects    | DNEL | 0,525    | mg/cm2                |  |

| <b>Bronopol (INN)</b>      |   |                             |                   |              |             |             |
|----------------------------|---|-----------------------------|-------------------|--------------|-------------|-------------|
| <b>Area of application</b> | <b>Exposure route / Environmental compartment</b> | <b>Effect on health</b>     | <b>Descriptor</b> | <b>Value</b> | <b>Unit</b> | <b>Note</b> |
|                            | Environment - freshwater                          |                             | PNEC              | 0,01         | mg/l        |             |
|                            | Environment - marine                              |                             | PNEC              | 0,001        | mg/kg       |             |
|                            | Environment - sewage treatment plant              |                             | PNEC              | 0,43         | mg/l        |             |
|                            | Environment - sediment, freshwater                |                             | PNEC              | 0,041        | mg/kg dw    |             |
|                            | Environment - sediment, marine                    |                             | PNEC              | 0,00328      | mg/kg dw    |             |
|                            | Environment - soil                                |                             | PNEC              | 0,5          | mg/kg dw    |             |
| Consumer                   | Human - inhalation                                | Long term, systemic effects | DNEL              | 1,2          | mg/m3       |             |
| Consumer                   | Human - inhalation                                | Long term, local effects    | DNEL              | 1,3          | mg/m3       |             |



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|                     |                    |                             |      |      |              |  |
|---------------------|--------------------|-----------------------------|------|------|--------------|--|
| Consumer            | Human - dermal     | Long term, systemic effects | DNEL | 1,4  | mg/kg bw/day |  |
| Consumer            | Human - oral       | Long term, systemic effects | DNEL | 0,35 | mg/kg bw/day |  |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 4,1  | mg/m3        |  |
| Workers / employees | Human - inhalation | Long term, local effects    | DNEL | 4,2  | mg/m3        |  |
| Workers / employees | Human - dermal     | Long term, systemic effects | DNEL | 2,3  | mg/kg bw/day |  |

## 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.

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

Skin protection - Hand protection:  
 Chemical resistant protective gloves (EN ISO 374).  
 If applicable  
 Protective gloves made of butyl (EN ISO 374).  
 Protective nitrile gloves (EN ISO 374).  
 Minimum layer thickness in mm:  
 > 0,5  
 Permeation time (penetration time) in minutes:  
 > 480  
 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.  
 Protective hand cream recommended.

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

Respiratory protection:  
 Normally not necessary.

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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |  |
|---|--|
| Physical state:   | Liquid   |
| Colour:   | Colourless, Reddish                                  |
| Odour:  | Characteristic                                       |
| 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:   | 7  |
| Kinematic viscosity:                                      | There is no information available on this parameter. |
| Solubility:   | Soluble  |
| 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:                          | 1,06 g/ml  |
| Relative vapour density:                                  | There is no information available on this parameter. |
| Particle characteristics:                                 | Does not apply to liquids.                           |

### 9.2 Other information

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

Avoid contact with strong alkalis.

Avoid contact with strong acids.

Avoid contact with strong oxidizing agents.

### 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      | 540,5 | mg/kg |          |             | calculated value |
| Acute toxicity, by dermal route: |          |       |       |          |             | n.d.a.           |
| Acute toxicity, by inhalation:   |          |       |       |          |             | n.d.a.           |
| Skin corrosion/irritation:       |          |       |       |          |             | n.d.a.           |
| Serious eye damage/irritation:   |          |       |       |          |             | n.d.a.           |

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|   |  |  |  |  |  |        |
|---|--|--|--|--|--|--------|
| 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. |

| <b>Ammonium mercaptoacetate</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:     | LD50            | 71           | mg/kg       | Rat             | OECD 401 (Acute Oral Toxicity)                                | Anhydrous substance              |
| Acute toxicity, by dermal route:   | LD50            | > 2000       | mg/kg       | Rat             | OECD 402 (Acute Dermal Toxicity)                              | (71% solution)                   |
| Acute toxicity, by inhalation:     | LC50            | > 2,75       | mg/l/1h     | Rat             |   | (71% solution)                   |
| Skin corrosion/irritation:         |                 |              |             | Rabbit          | OECD 404 (Acute Dermal Irritation/Corrosion)                  | Slightly irritant (71% solution) |
| Serious eye damage/irritation:     |                 |              |             | Rabbit          | OECD 405 (Acute Eye Irritation/Corrosion)                     | Slightly irritant (71% solution) |
| Respiratory or skin sensitisation: |                 |              |             | Mouse           | OECD 429 (Skin Sensitisation - Local Lymph Node Assay)        | Skin Sens. 1B (71% solution)     |
| Respiratory or skin sensitisation: |                 |              |             | Guinea pig      | OECD 406 (Skin Sensitisation)                                 | Yes (skin contact)               |
| Germ cell mutagenicity:            |                 |              |             |                 | OECD 474 (Mammalian Erythrocyte Micronucleus Test)            | Negative, Analogous conclusion   |
| Germ cell mutagenicity:            |                 |              |             |                 | OECD 471 (Bacterial Reverse Mutation Test)                    | Negative                         |
| Reproductive toxicity:             | NOAEL           | 20           | mg/kg/d     | Rat             | OECD 416 (Two-generation Reproduction Toxicity Study)         | Analogous conclusion             |
| Reproductive toxicity:             | NOAEL           | 20           | mg/kg/d     | Rat             | OECD 421 (Reproduction/Developmental Toxicity Screening Test) | Analogous conclusion             |

| <b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</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:                               | LD50            | 4100         | mg/kg       | Rat             | OECD 401 (Acute Oral Toxicity)               |               |
| 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) | Skin Irrit. 2 |
| Serious eye damage/irritation:                               |                 | >=10         | %           | Rabbit          | OECD 405 (Acute Eye Irritation/Corrosion)    | Eye Dam. 1    |

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|   |       |       |       |                        |  |                                    |
|---|-------|-------|-------|------------------------|--|------------------------------------|
| Serious eye damage/irritation:                                      |       | >=5   | %     | 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:   |       |       |       | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                     | Negative                           |
| Germ cell mutagenicity:   |       |       |       | Mouse                  | OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)    | Negative                           |
| Germ cell mutagenicity:   |       |       |       | Mouse                  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)          | Negative                           |
| Reproductive toxicity:  | NOAEL | >1000 | mg/kg | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)               | Negative, References               |
| Reproductive toxicity:  | NOAEL | >300  | mg/kg | Rat                    | OECD 416 (Two-generation Reproduction Toxicity Study)          | Negative, References               |
| Aspiration hazard:  |       |       |       |                        |  | No                                 |
| Symptoms:   |       |       |       |                        |  | mucous membrane irritation         |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | >225  | mg/kg | Rat                    | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Target organ(s): liver, References |

**D-Glucopyranose, oligomer, decyl octyl glycoside**

| 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 | Rabbit                 | 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)                 | Eye Dam. 1      |
| Respiratory or skin sensitisation: |          |       |       | Guinea pig             | Regulation (EC) 440/2008 B.6 (SKIN SENSITISATION)         | Not sensitising |
| Germ cell mutagenicity:            |          |       |       | Mouse                  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)     | Negative        |
| Germ cell mutagenicity:            |          |       |       | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                | Negative        |
| Germ cell mutagenicity:            |          |       |       |                        | OECD 474 (Mammalian Erythrocyte Micronucleus Test)        | Negative        |
| Germ cell mutagenicity:            |          |       |       | Mammalian              | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)  | Negative        |

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|   |       |      |            |     |   |          |
|---|-------|------|------------|-----|---|----------|
| Reproductive toxicity (Developmental toxicity):                     | NOAEL | 1000 | mg/kg bw/d | Rat | OECD 421 (Reproduction/Developmental Toxicity Screening Test)                                   | Negative |
| Reproductive toxicity (Effects on fertility):                       | NOAEL | 1000 | mg/kg bw/d | Rat | OECD 414 (Prenatal Developmental Toxicity Study)  | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 100  | mg/kg bw/d | Rat | Regulation (EC) 440/2008 B.26 (SUB-CHRONIC ORAL TOXICITY TEST REPEATED DOSE 90 - DAY (RODENTS)) |          |

| <b>Citronellol</b>                 |          |       |       |                        |  |   |
|------------------------------------|----------|-------|-------|------------------------|--|---|
| Toxicity / effect                  | Endpoint | Value | Unit  | Organism               | Test method  | Notes   |
| Acute toxicity, by oral route:     | LD50     | 3450  | mg/kg | Rat                    |  | RTECS   |
| Acute toxicity, by dermal route:   | LD50     | 2650  | mg/kg | Rabbit                 |  | RTECS   |
| 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 Irrit. 2  |
| Respiratory or skin sensitisation: |          |       |       | Mouse                  | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Yes (skin contact)  |
| Respiratory or skin sensitisation: |          | 25    | %     | Human being            | (Patch-Test)   | No (skin contact)solvent: ethanol:diethyl phthalate (1:3) |
| Germ cell mutagenicity:            |          |       |       | Mammalian              | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)  | NegativeChinese hamster                                   |
| Germ cell mutagenicity:            |          |       |       | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)             | Negative  |
| Germ cell mutagenicity:            |          |       |       | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)     | Negative  |

| <b>(2E)-2-benzylideneoctanal</b>   |          |       |                        |          |  |                    |
|------------------------------------|----------|-------|------------------------|----------|--|--------------------|
| Toxicity / effect                  | Endpoint | Value | Unit                   | Organism | Test method  | Notes              |
| Acute toxicity, by oral route:     | LD50     | 3100  | mg/kg                  | Rat      |  |                    |
| Acute toxicity, by dermal route:   | LD50     | >3000 | mg/kg                  | Rabbit   | OECD 402 (Acute Dermal Toxicity)                       |                    |
| Acute toxicity, by inhalation:     | LC50     | >2100 | mg/m <sup>3</sup> /8 h | Rat      |  |                    |
| Respiratory or skin sensitisation: |          |       |                        | Mouse    | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Yes (skin contact) |
| Germ cell mutagenicity:            |          |       |                        |          | OECD 471 (Bacterial Reverse Mutation Test)             | Negative           |
| Germ cell mutagenicity:            |          |       |                        |          | OECD 474 (Mammalian Erythrocyte Micronucleus Test)     | Negative           |

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|   |       |      |            |     |  |  |
|---|-------|------|------------|-----|--|--|
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:   | NOAEL | ~150 | mg/kg bw/d | Rat |  |  |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal: | NOAEL | 125  | mg/kg bw/d | Rat | OECD 411 (Subchronic Dermal Toxicity - 90-day Study) |  |

| <b>Bronopol (INN)</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:                              | LD50            | 305          | mg/kg       | Rat             | OECD 401 (Acute Oral Toxicity)                         | data of a diluted aqueous solution   |
| Acute toxicity, by dermal route:                            | LD50            | >2000        | mg/kg       | Rat             | OECD 402 (Acute Dermal Toxicity)                       | Does not conform with EU classification.   |
| Acute toxicity, by dermal route:                            | ATE             | 1100         | mg/kg       |                 |  |  |
| Acute toxicity, by inhalation:                              | LC50            | >0,588       | mg/l/4h     | Rat             |  | Aerosol, Maximum achievable concentration.   |
| Skin corrosion/irritation:                                  |                 |              |             | Rabbit          | OECD 404 (Acute Dermal Irritation/Corrosion)           | Skin Irrit. 2  |
| Serious eye damage/irritation:                              |                 |              |             | Rabbit          | (Draize-Test)  | Eye Dam. 1   |
| Respiratory or skin sensitisation:                          |                 |              |             | Guinea pig      | OECD 406 (Skin Sensitisation)                          | Not sensitizing  |
| Respiratory or skin sensitisation:                          |                 |              |             | Mouse           | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Not sensitizing  |
| Germ cell mutagenicity:                                     |                 |              |             |                 |  | Negative   |
| Carcinogenicity:  |                 |              |             |                 |  | Negative   |
| Specific target organ toxicity - single exposure (STOT-SE): |                 |              |             |                 |  | STOT SE 3, H335  |
| Symptoms:   |                 |              |             |                 |  | eyes, reddened, drowsiness, coughing, mucous membrane irritation, nausea and vomiting. |

## 11.2. Information on other hazards

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

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## 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.   |
| 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) $\geq$ 80%/28d: n.a.   |

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|                    |     |  |  |   |  |  |   |
|--------------------|-----|--|--|---|--|--|---|
| Other information: | AOX |  |  | % |  |  | According to the recipe, contains no AOX. |
|--------------------|-----|--|--|---|--|--|---|

| Ammonium mercaptoacetate                 |          |      |       |      |                                  |  |                                     |
|--|----------|------|-------|------|----------------------------------|--|-------------------------------------|
| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism                         | Test method  | Notes                               |
| 12.1. Toxicity to daphnia:               | EC50     | 48h  | 38    | mg/l | Daphnia magna                    | 84/449/EEC C.2   | Analogous conclusion                |
| 12.3. Bioaccumulative potential:         | Log Pow  |      | -2,99 |      |                                  |  |                                     |
| 12.3. Bioaccumulative potential:         | BCF      |      | 1     |      |                                  |  | Analogous conclusion (71% solution) |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | > 100 | mg/l | Oncorhynchus mykiss              | OECD 203 (Fish, Acute Toxicity Test)                     | (71% solution)                      |
| 12.1. Toxicity to algae:                 | EC50     | 72h  | 13    | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test)                  | Analogous conclusion                |
| 12.2. Persistence and degradability:     |          | 28d  | 70    | %    |                                  | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Analogous conclusion, Biodegradable |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |                                  |  | No PBT substance                    |
| 12.4. Mobility in soil:                  |          |      |       |      |                                  |  | Not to be expected                  |

| Alcohols, C12-14, ethoxylated, sulfates, sodium salts |           |      |       |      |                         |  |                       |
|---|-----------|------|-------|------|-------------------------|--|-----------------------|
| Toxicity / effect                                     | Endpoint  | Time | Value | Unit | Organism                | Test method  | Notes                 |
| 12.1. Toxicity to fish:                               | LC50      | 96h  | 7,1   | mg/l | Brachydanio rerio       | OECD 203 (Fish, Acute Toxicity Test)                               |                       |
| 12.1. Toxicity to fish:                               | NOEC/NOEL | 28d  | 0,1   | mg/l | Oncorhynchus mykiss     | OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)            |                       |
| 12.1. Toxicity to daphnia:                            | NOEC/NOEL | 21d  | 0,27  | mg/l | Daphnia magna           | OECD 211 (Daphnia magna Reproduction Test)                         |                       |
| 12.1. Toxicity to daphnia:                            | EC50      | 48h  | 7,2   | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                       |
| 12.1. Toxicity to algae:                              | NOEC/NOEL | 96h  | 0,95  | mg/l |                         | OECD 201 (Alga, Growth Inhibition Test)                            |                       |
| 12.1. Toxicity to algae:                              | EC50      | 72h  | 27,7  | mg/l | Desmodesmus subspicatus | 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 | >70   | %   |                           | OECD 301 A (Ready Biodegradability - DOC Die-Away Test)   | Readily biodegradable |
| 12.2. Persistence and degradability:     | DOC  | 28d | 100   | %   | activated sludge          | Regulation (EC) 440/2008 C.4-C (DETERMINATION OF 'READY' BIODEGRADABILITY - CO2 EVOLUTION TEST) | Readily biodegradable |
| 12.3. Bioaccumulative potential:         | BCF  |     | -1,38 |     |                           |   | Low                   |
| 12.4. Mobility in soil:                  | Koc  |     | 191   |     |                           |   | calculated value      |
| 12.5. Results of PBT and vPvB assessment |      |     |       |     |                           |   | No PBT substance      |
| Toxicity to bacteria:                    | EC50 | 16h | >10   | g/l | <i>Pseudomonas putida</i> | DIN 38412 T.8   |                       |

**D-Glucopyranose, oligomer, decyl octyl glycoside**

| Toxicity / effect                        | Endpoint  | Time | Value    | Unit  | Organism                       | Test method  | Notes                               |
|--|-----------|------|----------|-------|--------------------------------|--|-------------------------------------|
| 12.3. Bioaccumulative potential:         | Log Pow   |      | <1,77    |       |                                |  | Low                                 |
| Toxicity to annelids:                    |           | 14d  | >=654    | mg/kg | <i>Eisenia foetida</i>         |  |                                     |
| 12.5. Results of PBT and vPvB assessment |           |      |          |       |                                |  | No PBT substance, No vPvB substance |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | 126      | mg/l  | <i>Brachydanio rerio</i>       | OECD 203 (Fish, Acute Toxicity Test)                               |                                     |
| 12.1. Toxicity to fish:                  | NOEC/NOEL | 28d  | 1,8      | mg/l  | <i>Brachydanio rerio</i>       | OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)            |                                     |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | >100     | mg/l  | <i>Daphnia magna</i>           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                                     |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d  | 2        | mg/l  | <i>Daphnia magna</i>           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                                     |
| 12.1. Toxicity to algae:                 | EC20      | 72h  | 27,22-37 | mg/l  | <i>Desmodesmus subspicatus</i> | DIN 38412 T.9  |                                     |
| 12.2. Persistence and degradability:     |           | 14d  | 73       | %     | activated sludge               | OECD 302 (Inherent Biodegradability)                               | Readily biodegradable               |
| 12.2. Persistence and degradability:     |           | 28d  | 100      | %     | activated sludge               | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Readily biodegradable               |
| Toxicity to bacteria:                    | EC50      | 6h   | >560     | mg/l  | <i>Pseudomonas putida</i>      |  |                                     |

**Citronellol**

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|-------------------|----------|------|-------|------|----------|-------------|-------|
|-------------------|----------|------|-------|------|----------|-------------|-------|

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|  |           |       |       |      |                         |  |  |
|--|-----------|-------|-------|------|-------------------------|--|--|
| 12.5. Results of PBT and vPvB assessment |           |       |       |      |                         |  | No PBT substance, No vPvB substance calculated value |
| 12.1. Toxicity to fish:                  | LC50      | 96h   | 14,66 | mg/l | Leuciscus idus          | DIN 38412 T.15   |  |
| 12.1. Toxicity to fish:                  | NOEC/NOEL | 96h   | 4,6   | mg/l | Leuciscus idus          | DIN 38412 T.15   |  |
| 12.1. Toxicity to daphnia:               | EC50      | 48h   | 17,48 | mg/l | Daphnia magna           |  | 79/831/EWG   |
| 12.1. Toxicity to algae:                 | EC50      | 72h   | 2,4   | mg/l | Scenedesmus subspicatus |  |  |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 48h   | 3,1   | mg/l | Daphnia magna           |  |  |
| 12.2. Persistence and degradability:     |           | 28d   | 90    | %    | activated sludge        | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable                                |
| 12.3. Bioaccumulative potential:         | BCF       |       | 82,59 |      |                         |  | Low  |
| 12.3. Bioaccumulative potential:         | Log Pow   |       | 3,41  |      |                         | Regulation (EC) 440/2008 A.8 (PARTITION COEFFICIENT)               | Low25 °C   |
| Toxicity to bacteria:                    | EC10      | 30min | 580   | mg/l | Pseudomonas putida      | DIN 38412 T.27 (Draft)   |  |

**(2E)-2-benzylideneoctanal**

| Toxicity / effect                    | Endpoint  | Time | Value  | Unit | Organism                | Test method  | Notes                 |
|--------------------------------------|-----------|------|--------|------|-------------------------|--|-----------------------|
| 12.2. Persistence and degradability: |           | 28d  | 97     | %    |                         | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential:     | Log Pow   |      | 5,3    |      |                         |  | High                  |
| 12.3. Bioaccumulative potential:     | BCF       |      | 6000   |      |                         |  | High                  |
| 12.1. Toxicity to fish:              | LC50      | 96h  | 1,7    | mg/l | Pimephales promelas     | OECD 203 (Fish, Acute Toxicity Test)                               |                       |
| 12.1. Toxicity to fish:              | NOEC/NOEL | 96h  | 0,93   | mg/l | Pimephales promelas     | OECD 203 (Fish, Acute Toxicity Test)                               |                       |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | 0,247  | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                       |
| 12.1. Toxicity to daphnia:           | EC50      | 21d  | >157   | µg/l | Daphnia magna           | OECD 211 (Daphnia magna Reproduction Test)                         |                       |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 21d  | 63     | µg/l | Daphnia magna           | OECD 211 (Daphnia magna Reproduction Test)                         |                       |
| 12.1. Toxicity to algae:             | EC50      | 72h  | >0,065 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                            |                       |

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|                          |           |     |       |      |                         |   |  |
|--------------------------|-----------|-----|-------|------|-------------------------|---|--|
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | 0,065 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) |  |
|--------------------------|-----------|-----|-------|------|-------------------------|---|--|

| <b>Bronopol (INN)</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 algae:             | EC50            | 72h         | 0,068        | mg/l        | Anabaena flos-aquae | OECD 201 (Alga, Growth Inhibition Test)  |                       |
| 12.1. Toxicity to algae:             | NOEC/NOEL       | 72h         | 0,0025       | mg/l        | Anabaena flos-aquae | OECD 201 (Alga, Growth Inhibition Test)  |                       |
| 12.1. Toxicity to fish:              | LC50            | 96h         | 3            | mg/l        | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test)   |                       |
| 12.1. Toxicity to fish:              | LC50            | 28d         | 2,61         | mg/l        | Oncorhynchus mykiss | OECD 210 (Fish, Early-Life Stage Toxicity Test)  |                       |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL       | 21d         | 0,06         | mg/l        | Daphnia magna       | OECD 211 (Daphnia magna Reproduction Test)   |                       |
| 12.1. Toxicity to daphnia:           | EC50            | 48h         | 1,4          | mg/l        | Daphnia magna       | OECD 202 (Daphnia sp. Acute Immobilisation Test)   |                       |
| 12.2. Persistence and degradability: |                 |             | >70          | %           | activated sludge    | OECD 301 B (Ready Biodegradability - Co2 Evolution Test)   | Readily biodegradable |
| 12.2. Persistence and degradability: |                 |             | 63,5         | %           |                     | OECD 314 (Simulation Tests to Assess the Biodegradability of Chemicals Discharged in Wastewater) | Biodegradable         |
| 12.3. Bioaccumulative potential:     | Log Kow         |             | 0,22-0,38    |             |                     | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)                          |                       |
| 12.3. Bioaccumulative potential:     | BCF             |             | 3,16         |             |                     |  |                       |
| Other organisms:                     | LC50            | 14d         | >500         | mg/l        | Eisenia foetida     | OECD 207 (Earthworm, Acute Toxicity Tests)   |                       |
| Other information:                   | COD             |             | 600          | mg/g        |                     |  |                       |
| Other information:                   | Koc             |             | 5            |             |                     |  |                       |

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|                       |      |    |    |      |                  |   |  |
|-----------------------|------|----|----|------|------------------|---|--|
| Toxicity to bacteria: | EC50 | 3h | 43 | mg/l | activated sludge | OECD 209<br>(Activated<br>Sludge,<br>Respiration<br>Inhibition Test<br>(Carbon and<br>Ammonium<br>Oxidation)) |  |
|-----------------------|------|----|----|------|------------------|---|--|

## 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

15 01 02 plastic packaging

## SECTION 14: Transport information

### General statements

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

14.1. UN number or ID number: 1760  
 14.2. UN proper shipping name:  
 UN 1760 CORROSIVE LIQUID, N.O.S. (AMMONIUM MERCAPTOACETATE)  
 14.3. Transport hazard class(es): 8  
 14.4. Packing group: III  
 14.5. Environmental hazards: Not applicable  
 Tunnel restriction code: E  
 Classification code: C9  
 LQ: 5 L  
 Transport category: 3



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

14.1. UN number or ID number: 1760  
 14.2. UN proper shipping name:  
 UN 1760 CORROSIVE LIQUID, N.O.S. (AMMONIUM MERCAPTOACETATE)  
 14.3. Transport hazard class(es): 8  
 14.4. Packing group: III  
 14.5. Environmental hazards: Not applicable  
 Marine Pollutant: Not applicable  
 EmS: F-A, S-B  
 Segregation: -



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14.1. UN number or ID number: 1760  
 14.2. UN proper shipping name:  
 UN 1760 Corrosive liquid, n.o.s. (AMMONIUM MERCAPTOACETATE)  
 14.3. Transport hazard class(es): 8  
 14.4. Packing group: III  
 14.5. Environmental hazards: Not applicable



**14.6. Special precautions for user**

Persons employed in transporting dangerous goods must be trained.  
 All persons involved in transporting must observe safety regulations.  
 Precautions must be taken to prevent damage.

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

Freighted as packaged goods rather than in bulk, therefore not applicable.  
 Minimum amount regulations have not been taken into account.  
 Danger code and packing code on request.  
 Comply with special provisions.

**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 the protection of young people at work (national implementation of the Directive 94/33/EC)!  
 Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!  
 Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): < 1 %

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

5 % or over but less than 15 %

anionic surfactants

less than 5 %

non-ionic surfactants

perfumes

CITRONELLOL

HEXYL CINNAMAL

LIMONENE

2-BROMO-2-NITROPROPANE-1,3-DIOL

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: n.a.  
 Employee training in handling dangerous goods is required.  
 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                             |
|---|--|
| Acute Tox. 4, H302  | Classification according to calculation procedure. |

|                    |  |
|--------------------|--|
| Eye Dam. 1, H318   | Classification according to calculation procedure. |
| Skin Sens. 1, H317 | 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 (specified in Section 2 and 3).

H317 May cause an allergic skin reaction.

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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.

Acute Tox. — Acute toxicity - oral

Eye Dam. — Serious eye damage

Skin Sens. — Skin sensitization

Met. Corr. — Substance or mixture corrosive to metals

Skin Irrit. — Skin irritation

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Eye Irrit. — Eye irritation

Aquatic Acute — Hazardous to the aquatic environment - acute

Acute Tox. — Acute toxicity - dermal

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

### 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

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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  
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)

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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.

No responsibility.

These statements were made by:

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