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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:

Skin cleaning

Uses advised against: No information available at present.

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

Albert Berner Deutschland GmbH, Bernerstrasse 4, 74653 Künzelsau, Germany Phone:+49 79 40 12 10, Fax:+49 79 40 12 13 00 info@berner.de, www.berner.de

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

Qualified person's e-mail address: Productsafety.Chemicals@berner-group.com Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies: +49 (0) 221 80260 889 (09:00 – 17:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP) Cosmetics regulations are to be applied.



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## 2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP) Not applicable

## 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 %).

SECTION 3: Composition/information on ingredients

INCI:

AQUA, ZEA MAYS COB MEAL, SODIUM LAURETH SULFATE, COCONUT ACID, LAURETH-2, TRIDECETH-7, CI 77891, SODIUM C 13-17 ALKANE SULFONATE, COCAMIDOPROPYL BETAINE, XANTHAN GUM, CELLULOSE GUM,

ACRYLATES /C10-30 ALKYL ACRYLATE CROSSPOLYMER, PARFUM, PROPYLENE GLYCOL, BENZYL ALCOHOL, METHYLISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE

3.1 Substance

n.a. 3 2 Mixture

| Alcohols, C12-14, ethoxylated, sulfates, sodium | Substance with specific conc. limit(s) acc. |
|---|---|
| salts   | to REACh-registration                       |
| Registration number (REACH)                     | 01-2119488639-16-XXXX                       |
| Index   |   |
| EINECS, ELINCS, NLP                             | 500-234-8 (NLP)                             |
| CAS   | 68891-38-3                                  |
| content %                                       | 1-<5  |
| Classification according to Regulation (EC)     | Skin Irrit. 2, H315                         |
| 1272/2008 (CLP)                                 | Eye Dam. 1, H318                            |
|   | Aquatic Chronic 3, H412                     |

| Isotridecanol, ethoxylated                  |                  |
|---|------------------|
| Registration number (REACH)                 |                  |
| Index                                       |                  |
| EINECS, ELINCS, NLP                         |                  |
| CAS   | 9043-30-5        |
| content %                                   | 1-<2,5           |
| Classification according to Regulation (EC) | Eye Dam. 1, H318 |
| 1272/2008 (CLP)                             |                  |

| Alcohols, C12-14, ethoxylated               |                             |
|---|-----------------------------|
| Registration number (REACH)                 |                             |
| Index                                       |                             |
| EINECS, ELINCS, NLP                         |                             |
| CAS   | 68439-50-9                  |
| content %                                   | 1-<2,5                      |
| Classification according to Regulation (EC) | Eye Dam. 1, H318            |
| 1272/2008 (CLP)                             | Aquatic Acute 1, H400 (M=1) |
|   | Aquatic Chronic 3, H412     |



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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

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Not required.

Skin contact

Normally not irritating to skin.

Wash in water.

## 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.

Give copious water to drink. Consult doctor if necessary.

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.

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

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

## 5.3 Advice for firefighters

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



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#### 6.1 Personal precautions, protective equipment and emergency procedures No special measures required.

Avoid contact with eyes.

If applicable, caution - risk of slipping.

6.2 Environmental precautions

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

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

Avoid contact with eyes.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use.

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

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Store at room temperature.

Store in a dry place.

## 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

| Alcohols, C12-14, ethoxylated, sulfates, sodium salts |  |                  |                |       |      |      |  |  |
|---|--|------------------|----------------|-------|------|------|--|--|
| Area of application                                   | Exposure route /<br>Environmental<br>compartment | Effect on health | Descrip<br>tor | Value | Unit | Note |  |  |
|   |  |                  |                |       |      |      |  |  |



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|                     | Environment -          |                                | PNEC  | 0,24  | mg/l          |
|---------------------|------------------------|--------------------------------|-------|-------|---------------|
|                     | freshwater             |                                | _     | - /   | 5,            |
|                     | Environment -          |                                | PNEC  | 0,13  | mg/l          |
|                     | periodic release       |                                | DNICC | 0.024 |               |
|                     | Environment - marine   | 2                              | PNEC  | 0,024 | mg/l          |
|                     | Environment -          |                                | PNEC  | 5,45  | mg/kg         |
|                     | sediment, freshwater   |                                |       |       | dry<br>weight |
|                     | Environment -          | 2<br>Y                         | PNEC  | 0,545 | mg/kg         |
|                     | sediment, marine       |                                |       |       | dry           |
| -                   |                        | 4                              |       |       | weight        |
|                     | Environment -          |                                | PNEC  | 10000 | mg/l          |
|                     | sewage treatment       |                                |       |       |               |
|                     | plant                  | 4                              |       |       |               |
|                     | Environment - soil     |                                | PNEC  | 0,946 | mg/kg         |
|                     |                        |                                |       |       | dry           |
|                     |                        | ž.                             | -     | 10    | weight        |
|                     | Environment -          |                                | PNEC  | 0,071 | mg/l          |
|                     | sporadic               |                                |       |       |               |
|                     | (intermittent) release |                                |       |       | · · ·         |
|                     | Environment -          | Short term                     | PNEC  | 0,917 | mg/kg         |
|                     | sediment, freshwater   |                                |       |       |               |
|                     | Environment -          | Short term                     | PNEC  | 0,092 | mg/kg         |
|                     | sediment, marine       |                                |       |       |               |
| 2                   | Environment - soil     | Short term                     | PNEC  | 7,5   | mg/kg         |
| Consumer            | Human - oral           | Long term,                     | DNEL  | 15    | mg/kg         |
|                     |                        | systemic effects               | DNE   | 1.050 | bw/day        |
| Consumer            | Human - dermal         | Long term,                     | DNEL  | 1650  | mg/kg         |
| Company             | llumen inheletion      | systemic effects               | DNEL  | - F2  | bw/day        |
| Consumer            | Human - inhalation     | Long term,<br>systemic effects | DNEL  | 52    | mg/m3         |
| Workers / employees | Human - dermal         | Long term,                     | DNEL  | 2750  | mg/kg         |
|                     |                        | systemic effects               |       |       | bw/day        |
| Workers / employees | Human - inhalation     | Long term,                     | DNEL  | 175   | mg/m3         |
|                     |                        | systemic effects               |       |       |               |

## 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: Normally not necessary.



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Skin protection - Hand protection: Normally not necessary.

Skin protection - Other: Normally not necessary.

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.

SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

| Physical state:                          | Paste, liquid.              |
|--|-----------------------------|
| Colour:                                  | Beige                       |
| Odour:                                   | Orange                      |
| Odour threshold:                         | Not determined              |
| pH-value:                                | 4,1-5,0                     |
| Melting point/freezing point:            | Not determined              |
| Initial boiling point and boiling range: | ~100 °C                     |
| Flash point:                             | >100 °C                     |
| Evaporation rate:                        | Not determined              |
| Flammability (solid, gas):               | n.a.                        |
| Lower explosive limit:                   | n.a.                        |
| Upper explosive limit:                   | n.a.                        |
| Vapour pressure:                         | ~23,4 mbar (20°C)           |
| Vapour density (air = 1):                | Not determined              |
| Density:                                 | 0,8-0,95 (relative density) |
| Bulk density:                            | n.a.                        |
| Solubility(ies):                         | Not determined              |
| Water solubility:                        | partially                   |
| Partition coefficient (n-octanol/water): | Not determined              |
| Auto-ignition temperature:               | Not determined              |



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Decomposition temperature: Viscosity: Explosive properties: Oxidising properties: **9.2 Other information** Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content:

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Not determined 8000-28000 Product is not explosive. No

Not determined Not determined Not determined Not determined 0 % (Organic solvents )

## SECTION 10: Stability and reactivity

10.1 Reactivity
Not to be expected

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
See also section 7.
None known
10.5 Incompatible materials
None known

10.6 Hazardous decomposition products
See also section 5.2
No decomposition when used as directed.

## SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

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

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|----------------------------|--------|-------|------|----------|-------------|--------|--|--|
| Art.: 362812               |        |       |      |          |             |        |  |  |
| Toxicity / effect          | Endpoi | Value | Unit | Organism | Test method | Notes  |  |  |
|                            | nt     |       |      |          |             |        |  |  |
| Acute toxicity, by oral    |        |       |      |          |             | n.d.a. |  |  |
| route:                     | 9      |       |      | 8        |             |        |  |  |
| Acute toxicity, by         |        |       |      |          |             | n.d.a. |  |  |
| dermal route:              |        |       |      |          |             |        |  |  |
| Acute toxicity, by         |        |       |      |          |             | n.d.a. |  |  |
| inhalation:                |        |       |      |          |             |        |  |  |
| Skin                       |        |       |      |          |             | n.d.a. |  |  |
| corrosion/irritation:      |        |       |      |          |             |        |  |  |
| Serious eye                |        | 2     |      | 2        |             | n.d.a. |  |  |
| damage/irritation:         |        |       |      |          |             |        |  |  |
| Respiratory or skin        | >      |       |      |          |             | n.d.a. |  |  |
| sensitisation:             |        |       |      |          |             |        |  |  |
| Germ cell mutagenicity:    |        |       |      |          |             | n.d.a. |  |  |



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|------------------------|---------|---|--------|
| Carcinogenicity:       |         |   | n.d.a. |
| Reproductive toxicity: |         |   | n.d.a. |
| Specific target organ  |         |   | n.d.a. |
| toxicity - single      |         |   |        |
| exposure (STOT-SE):    |         |   |        |
| Specific target organ  |         |   | n.d.a. |
| toxicity - repeated    |         |   |        |
| exposure (STOT-RE):    |         |   |        |
| Aspiration hazard:     |         |   | n.d.a. |
| Symptoms:              |         | ( | n.d.a. |
|                        |         |   |        |

| Toxicity / effect  | Endpoi<br>nt | Value | Unit  | Organism   | Test method  | Notes                                       |
|--|--------------|-------|-------|------------|--|---|
| Acute toxicity, by oral route:   | LD50         | 4100  | mg/kg | Rat        | OECD 401 (Acute<br>Oral Toxicity)  |   |
| Acute toxicity, by dermal route:   | LD50         | >2000 | mg/kg | Rat        | OECD 402 (Acute<br>Dermal Toxicity)  |   |
| Skin<br>corrosion/irritation:  |              |       |       | Rabbit     | OECD 404 (Acute<br>Dermal<br>Irritation/Corrosio<br>n)                     | Irritant                                    |
| Serious eye<br>damage/irritation:  |              |       |       | Rabbit     | OECD 405 (Acute<br>Eye<br>Irritation/Corrosio<br>n)                        | Risk of<br>serious<br>damage to<br>eyes.    |
| Serious eye<br>damage/irritation:  |              | >=10  | %     |            |  | Eye Dam. 1                                  |
| Serious eye<br>damage/irritation:  |              | >=5   | %     |            |  | Eye Irrit. 2                                |
| Respiratory or skin sensitisation:   | 3            |       |       | Guinea pig | OECD 406 (Skin<br>Sensitisation)   | Not<br>sensitizising                        |
| Germ cell mutagenicity:  |              |       |       |            | OECD 471<br>(Bacterial<br>Reverse Mutation<br>Test)                        | Negative                                    |
| Reproductive toxicity:   | NOAEL        | >1000 | mg/kg | Rat        | OECD 414<br>(Prenatal<br>Developmental<br>Toxicity Study)                  | Negative,<br>References                     |
| Reproductive toxicity:   | NOAEL        | >300  | mg/kg | Rat        | OECD 416 (Two-<br>generation<br>Reproduction<br>Toxicity Study)            | Negative,<br>References                     |
| Symptoms:  |              |       |       |            |  | mucous<br>membrane<br>irritation            |
| Specific target organ<br>toxicity - repeated<br>exposure (STOT-RE),<br>oral: | NOAEL        | >225  | mg/kg | Rat        | OECD 408<br>(Repeated Dose<br>90-Day Oral<br>Toxicity Study in<br>Rodents) | Target<br>organ(s):<br>liver,<br>References |



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| Isotridecanol, ethoxylated         |              |       |       |          |                                   |  |  |
|------------------------------------|--------------|-------|-------|----------|-----------------------------------|--|--|
| Toxicity / effect                  | Endpoi<br>nt | Value | Unit  | Organism | Test method                       | Notes                                    |  |
| Acute toxicity, by oral route:     | LD50         | >2000 | mg/kg | Rat      | OECD 401 (Acute<br>Oral Toxicity) |  |  |
| Acute toxicity, by dermal route:   | LD50         | >2000 | mg/kg | Rabbit   |                                   |  |  |
| Skin<br>corrosion/irritation:      |              |       |       | Rabbit   |                                   | Not irritant                             |  |
| Serious eye<br>damage/irritation:  |              |       |       |          |                                   | Risk of<br>serious<br>damage to<br>eyes. |  |
| Respiratory or skin sensitisation: |              |       |       |          |                                   | Not<br>sensitizising                     |  |
| Symptoms:                          |              |       |       |          |                                   | drying of the skin.                      |  |

| Alcohols, C12-14, ethoxylated |        |        |       |          |             |               |  |  |
|-------------------------------|--------|--------|-------|----------|-------------|---------------|--|--|
| Toxicity / effect             | Endpoi | Value  | Unit  | Organism | Test method | Notes         |  |  |
|                               | nt     |        |       |          |             |               |  |  |
| Acute toxicity, by oral       | LD50   | >2000  | mg/kg | Rat      |             |               |  |  |
| route:                        |        |        |       |          |             |               |  |  |
| Acute toxicity, by            | LD50   | > 2000 | mg/kg | Rabbit   |             |               |  |  |
| dermal route:                 |        |        |       |          |             |               |  |  |
| Skin                          |        |        |       |          |             | Not irritant  |  |  |
| corrosion/irritation:         |        |        |       |          |             |               |  |  |
| Skin                          |        |        |       |          |             | Analogous     |  |  |
| corrosion/irritation:         |        |        |       |          |             | conclusion,   |  |  |
|                               |        |        |       |          |             | Slightly      |  |  |
|                               |        |        |       |          |             | irritant      |  |  |
| Serious eye                   |        |        |       |          |             | Risk of       |  |  |
| damage/irritation:            |        |        |       |          |             | serious       |  |  |
|                               |        |        |       |          |             | damage to     |  |  |
|                               |        |        |       |          |             | eyes.         |  |  |
| Serious eye                   |        |        |       |          |             | Analogous     |  |  |
| damage/irritation:            |        |        |       |          |             | conclusion,   |  |  |
|                               |        |        |       |          |             | Risk of       |  |  |
|                               |        |        |       |          |             | serious       |  |  |
|                               |        |        |       |          |             | damage to     |  |  |
|                               |        |        |       |          |             | eyes.         |  |  |
| Respiratory or skin           |        |        |       |          |             | Not           |  |  |
| sensitisation:                |        |        |       |          |             | sensitizising |  |  |

## SECTION 12: Ecological information

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

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



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|--|----------|--|
| 12.1. Toxicity to fish:                        |          | n.d.a.   |
| 12.1. Toxicity to<br>daphnia:                  |          | n.d.a.   |
| 12.1. Toxicity to<br>algae:                    |          | n.d.a.   |
| 12.2. Persistence<br>and degradability:        |          | n.d.a.   |
| 12.3.<br>Bioaccumulative<br>potential:         |          | n.d.a.   |
| 12.4. Mobility in soil:                        |          | n.d.a.   |
| 12.5. Results of<br>PBT and vPvB<br>assessment |          | n.d.a.   |
| 12.6. Other<br>adverse effects:                |          | n.d.a.   |
| Other information:                             |          | According to<br>the recipe,<br>contains no<br>AOX.   |
| Other information:                             |          | DOC-<br>elimination<br>degree(comp<br>lexing<br>organic<br>substance)><br>= 80%/28d:<br>n.a. |

| <b>Foxicity / effect</b> | Endpoint | Time | Value | Unit | Organism    | Test method        | Notes |
|--------------------------|----------|------|-------|------|-------------|--------------------|-------|
| 12.1. Toxicity to        | LC50     | 96h  | 7,1   | mg/l | Brachydanio | OECD 203           | - C   |
| ish:                     |          |      |       |      | rerio       | (Fish, Acute       |       |
|                          |          |      |       |      |             | Toxicity Test)     |       |
| 12.1. Toxicity to        | NOEC/NOE | 21d  | 0,27  | mg/l | Daphnia     | OECD 211           |       |
| daphnia:                 | L        |      |       |      | magna       | (Daphnia           |       |
|                          |          |      |       |      |             | magna              |       |
|                          |          |      |       |      |             | Reproduction       |       |
|                          |          | 1.01 | -     |      |             | Test)              |       |
| 12.1. Toxicity to        | EC50     | 48h  | 7,4   | mg/l | Daphnia     | OECD 202           |       |
| daphnia:                 |          |      |       |      | magna       | (Daphnia sp.       |       |
|                          |          |      |       |      |             | Acute              |       |
|                          |          |      |       |      |             | Immobilisatio      |       |
| 12.1 Toxicity to         | NOEC/NOE | 96h  | 0,95  | ma/l |             | n Test)            | -     |
| 12.1. Toxicity to        |          | 9011 | 0,95  | mg/l |             | OECD 201           |       |
| algae:                   |          |      |       |      |             | (Alga,<br>  Growth |       |
|                          |          |      |       |      |             | Inhibition         |       |
|                          |          |      |       |      |             | Test)              |       |



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|--|---------|-----|------|------|-----------------------|---|--|
| 12.1. Toxicity to algae:                       | EC50    | 72h | 27,7 | mg/l |                       | OECD 201<br>(Alga,<br>Growth<br>Inhibition<br>Test)                                   |  |
| 12.2. Persistence<br>and degradability:        |         | 28d | 95   | %    |                       | OECD 301 E<br>(Ready<br>Biodegradabili<br>ty - Modified<br>OECD<br>Screening<br>Test) |  |
| 12.2. Persistence<br>and degradability:        |         | 28d | >70  | %    |                       | OECD 301 A<br>(Ready<br>Biodegradabili<br>ty - DOC Die-<br>Away Test)                 | Readily<br>biodegradabl<br>e                           |
| 12.3.<br>Bioaccumulative<br>potential:         | Kow     |     | 0,3  | 2    |                       |   |  |
| 12.3.<br>Bioaccumulative<br>potential:         | Log Pow |     | 0,3  |      |                       |   | Bioaccumula<br>tion is<br>unlikely<br>(LogPow <<br>1). |
| 12.4. Mobility in soil:                        | Кос     |     | 191  |      |                       |   | calculated<br>value                                    |
| 12.5. Results of<br>PBT and vPvB<br>assessment |         |     |      |      |                       |   | No PBT<br>substance                                    |
| Toxicity to bacteria:                          | EC50    | 16h | >10  | g/l  | Pseudomonas<br>putida | DIN 38412<br>T.8  | ~  |

| Isotridecanol, eth<br>Toxicity / effect | Endpoint | Time | Value | Unit | Organism                   | Test method   | Notes |
|---|----------|------|-------|------|----------------------------|---|-------|
| 12.1. Toxicity to fish:                 | LC50     | 96h  | 1-10  | mg/l | Cyprinus<br>caprio         | OECD 203<br>(Fish, Acute<br>Toxicity Test)                    | notes |
| 12.1. Toxicity to fish:                 | LC50     | 96h  | 1-10  | mg/l | Brachydanio<br>rerio       | OECD 203<br>(Fish, Acute<br>Toxicity Test)                    |       |
| 12.1. Toxicity to daphnia:              | EC50     | 48h  | 1-10  | mg/l | Daphnia<br>magna           | OECD 202<br>(Daphnia sp.<br>Acute<br>Immobilisatio<br>n Test) |       |
| 12.1. Toxicity to algae:                | EC50     | 72h  | 1-10  | mg/l | Scenedesmus<br>subspicatus | OECD 201<br>(Alga,<br>Growth<br>Inhibition<br>Test)           |       |



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| 10                                      |     |     |      | 0    |   |
|---|-----|-----|------|------|---|
| 12.2. Persistence<br>and degradability: |     | 28d | >70  | %    | OECD 301 A<br>(Ready<br>Biodegradabili<br>ty - DOC Die-<br>Away Test)                 |
| 12.2. Persistence<br>and degradability: |     | 28d | >60  | %    | OECD 301 B<br>(Ready<br>Biodegradabili<br>ty - Co2<br>Evolution<br>Test)              |
| 12.2. Persistence<br>and degradability: |     | 28d | 60   | %    | OECD 301 F<br>(Ready<br>Biodegradabili<br>ty -<br>Manometric<br>Respirometry<br>Test) |
| Other information:                      | DOC |     | 620  | mg/g |   |
| Other information:                      | COD |     | 2240 | mg/g |   |

| Alcohols, C12-14, ethoxylated |          |      |       |      |               |                |       |  |
|-------------------------------|----------|------|-------|------|---------------|----------------|-------|--|
| Toxicity / effect             | Endpoint | Time | Value | Unit | Organism      | Test method    | Notes |  |
| 12.1. Toxicity to             | LC50     | 96h  | 0,1-1 | mg/l | Brachydanio   |                |       |  |
| fish:                         |          |      |       |      | rerio         |                |       |  |
| 12.1. Toxicity to             | LC50     | 96h  | 1,1   | mg/l | Oncorhynchus  | OECD 203       |       |  |
| fish:                         |          |      |       |      | mykiss        | (Fish, Acute   |       |  |
|                               |          |      |       |      |               | Toxicity Test) |       |  |
| 12.1. Toxicity to             | EC50     | 48h  | 0,1-1 | mg/l | Daphnia       |                |       |  |
| daphnia:                      |          |      |       |      | magna         |                |       |  |
| 12.1. Toxicity to             | EC50     | 72h  | 0,41  | mg/l | Pseudokirchn  | OECD 201       |       |  |
| algae:                        |          |      |       |      | eriella       | (Alga,         |       |  |
|                               |          |      |       |      | subcapitata   | Growth         |       |  |
|                               |          |      |       |      |               | Inhibition     |       |  |
|                               |          |      |       |      |               | Test)          |       |  |
| 12.1. Toxicity to             | NOEC/NOE | 72h  | 0,31  | mg/l | Pseudokirchn  | OECD 201       |       |  |
| algae:                        | L        |      |       |      | eriella       | (Alga,         |       |  |
|                               |          |      |       |      | subcapitata   | Growth         |       |  |
|                               |          |      |       |      |               | Inhibition     |       |  |
|                               |          |      |       |      |               | Test)          |       |  |
| 12.1. Toxicity to             | EC50     | 72h  | 0,1-1 | mg/l | Desmodesmu    |                |       |  |
| algae:                        |          |      |       |      | s subspicatus |                |       |  |



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| >60 | % | OECD 301 B | The  |
|-----|---|------------|--|
|     |   |            | surfactant(s)  |
|     |   |            | contained  |
|     |   |            | in this  |
|     |   |            | mixture  |
|     |   | Test)      | complies(co  |
|     |   |            | mply) with   |
|     |   |            | the  |
|     |   |            | biodegradab  |
|     |   |            | lity criteria  |
|     |   |            | as laid dowr   |
|     |   |            | in   |
|     |   |            | Regulation   |
|     |   |            | (EC)   |
|     |   |            | No.648/200   |
|     |   |            | on   |
|     |   |            | detergents.  |
|     |   |            | Data to  |
|     |   |            | support this   |
|     |   |            | assertion  |
|     |   |            | are held at<br>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  |
|     |   |            | manufacture  |
|     | 4 |            | r.   |
|     |   |            | No PBT   |
|     |   |            | substance,   |
|     |   |            | No vPvB<br>substance   |
|     |   |            | Set % Occosting Ready Biodegradability - Co2 Evolution Test) |

## 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



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allocated under certain circumstances. (2014/955/EU) 07 06 99 wastes not otherwise specified Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. dispose at suitable refuse site. For contaminated packing material Pay attention to local and national official regulations. Empty container completely.

Empty container completely.

Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

## General statements

| 14.1. UN number:                                     | n.a.                          |
|--|-------------------------------|
| Transport by road/by rail (ADR/RID)                  |                               |
| 14.2. UN proper shipping name:                       |                               |
| 14.3. Transport hazard class(es):                    | n.a.                          |
| 14.4. Packing group:                                 | n.a.                          |
| Classification code:                                 | n.a.                          |
| LQ:  | n.a.                          |
| 14.5. Environmental hazards:                         | Not applicable                |
| Tunnel restriction code:                             |                               |
| Transport by sea (IMDG-code)                         |                               |
| 14.2. UN proper shipping name:                       |                               |
| 14.3. Transport hazard class(es):                    | n.a.                          |
| 14.4. Packing group:                                 | n.a.                          |
| Marine Pollutant:                                    | n.a                           |
| 14.5. Environmental hazards:                         | Not applicable                |
| Transport by air (IATA)                              |                               |
| 14.2. UN proper shipping name:                       |                               |
| 14.3. Transport hazard class(es):                    | n.a.                          |
| 14.4. Packing group:                                 | n.a.                          |
| 14.5. Environmental hazards:                         | Not applicable                |
| 14.6. Special precautions for user                   |                               |
| Unloss enacified otherwise, general measures for sat | fo transport must be followed |

Unless specified otherwise, general measures for safe transport must be followed. 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code 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:

General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC):



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## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections:

n.a.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP): Not applicable

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). H315 Causes skin irritation. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects. Skin Irrit. — Skin irritation

Eye Dam. — Serious eye damage Aquatic Chronic — Hazardous to the aquatic environment - chronic Aquatic Acute — Hazardous to the aquatic environment - acute

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## Any abbreviations and acronyms used in this document:

AC Article Categories acc., acc. to according, according to American Conference of Governmental Industrial Hygienists ACGIH ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOEL Acceptable Operator Exposure Level AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) ATE 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 BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGV Biological monitoring guidance value (EH40, UK) BOD Biochemical oxygen demand BSEF Bromine Science and Environmental Forum body weight bw CAS **Chemical Abstracts Service** CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids CESIOComité Européen des Agents de Surface et de leurs Intermédiaires Organiques CIPAC Collaborative International Pesticides Analytical Council CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic COD Chemical oxygen demand CTFA Cosmetic, Toiletry, and Fragrance Association DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon DT50 Dwell Time - 50% reduction of start concentration



(GB) Page 18 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.11.2017 / 0001 Replacing version dated / version: 22.11.2017 / 0001 Valid from: 22.11.2017 PDF print date: 24.11.2017 Hand cleaner STANDARD 30 I Art.: 362812 DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes) dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. European Community EC ECHA European Chemicals Agency European Economic Area EEA EEC European Economic Community European Inventory of Existing Commercial Chemical Substances EINECS European List of Notified Chemical Substances ELINCS European Norms ΕN United States Environmental Protection Agency (United States of America) EPA ERC Environmental Release Categories ES Exposure scenario et cetera etc. EU European Union EWC European Waste Catalogue Fax. Fax number gen. general Globally Harmonized System of Classification and Labelling of Chemicals GHS GWP Global warming potential HET-CAM Hen's Egg Test - Chorionallantoic Membrane HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer IATA International Air Transport Association Intermediate Bulk Container IBC IBC (Code) International Bulk Chemical (Code) IC Inhibitory concentration IMDG-code International Maritime Code for Dangerous Goods incl. including, inclusive International Uniform ChemicaL Information Database IUCLID LC lethal concentration LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration Lethal Dose of a chemical LD LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low LOAELLowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration LOEL Lowest Observed Effect Level Limited Quantities LQ 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 of Occupational Safety and Health (United States of America) NOAFC No Observed Adverse Effective Concentration NOAFI No Observed Adverse Effect Level NOEC No Observed Effect Concentration NOEL No Observed Effect Level ODP Ozone Depletion Potential OECD Organisation for Economic Co-operation and Development



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not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.