1.1 Product identifier

PRIMA TEX

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

Relevant identified uses of the substance or mixture:
Detergent

Uses advised against:
No information available at present.

1.3 Details of the supplier of the safety data sheet

DR.SCHNELL GmbH & Co. KGaA, Taunusstr. 19, 80807 München, Germany
Phone:089/350608-0, Fax:089/350608-47
info@dr-schnell.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:

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:
+49 (0) 700 / 24 112 112 (DSC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

<table>
<thead>
<tr>
<th>Hazard class</th>
<th>Hazard category</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit.</td>
<td>2</td>
<td>H319-Causes serious eye irritation.</td>
</tr>
<tr>
<td>Skin Irrit.</td>
<td>2</td>
<td>H315-Causes skin irritation.</td>
</tr>
</tbody>
</table>

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)
### Warning

H319-Causes serious eye irritation.  H315-Causes skin irritation.

P280-Wear protective gloves / eye protection / face protection.

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P314-Get medical advice / attention if you feel unwell.

#### 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

#### 3.1 Substance

n.a.

#### 3.2 Mixture

<table>
<thead>
<tr>
<th>Substance</th>
<th>Substance with specific conc. limit(s) acc. to REACh-registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>tetrasodium (1-hydroxyethylidene)bisphosphonate</td>
<td></td>
</tr>
<tr>
<td>Registration number (REACH)</td>
<td>01-2119510382-52-XXXX</td>
</tr>
<tr>
<td>Index</td>
<td>---</td>
</tr>
<tr>
<td>EINECS, ELINCS, NLP</td>
<td>223-267-7</td>
</tr>
<tr>
<td>CAS</td>
<td>3794-83-0</td>
</tr>
<tr>
<td>content %</td>
<td>5-15</td>
</tr>
</tbody>
</table>
| Classification according to Regulation (EC) 1272/2008 (CLP) | Acute Tox. 4, H302  
Eye Irrit. 2, H319 |

<table>
<thead>
<tr>
<th>Sulfonic acids, C14-17-sec-alkane, sodium salts</th>
<th>Substance with specific conc. limit(s) acc. to REACh-registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration number (REACH)</td>
<td>01-2119489924-20-XXXX</td>
</tr>
<tr>
<td>Index</td>
<td>---</td>
</tr>
<tr>
<td>EINECS, ELINCS, NLP</td>
<td>307-055-2</td>
</tr>
<tr>
<td>CAS</td>
<td>97489-15-1</td>
</tr>
<tr>
<td>content %</td>
<td>5-10</td>
</tr>
</tbody>
</table>
| Classification according to Regulation (EC) 1272/2008 (CLP) | Acute Tox. 4, H302  
Skin Irrit. 2, H315  
Eye Dam. 1, H318  
Aquatic Chronic 3, H412 |

<table>
<thead>
<tr>
<th>Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, chlorides</th>
<th>Substance with specific conc. limit(s) acc. to REACh-registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration number (REACH)</td>
<td>01-2119484688-17-XXXX</td>
</tr>
<tr>
<td>Index</td>
<td>---</td>
</tr>
<tr>
<td>EINECS, ELINCS, NLP</td>
<td>931-275-3 (REACH-IT List-No.)</td>
</tr>
<tr>
<td>CAS</td>
<td>---</td>
</tr>
<tr>
<td>content %</td>
<td>1-2,5</td>
</tr>
</tbody>
</table>
| Classification according to Regulation (EC) 1272/2008 (CLP) | Acute Tox. 4, H302  
Aquatic Acute 1, H400 (M=1)  
STOT RE 2, H373  
Skin Corr. 1B, H314  
Eye Dam. 1, H318 |
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
Supply person with fresh air and consult doctor according to symptoms.

Skin contact
Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

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

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

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

eyes, reddened
Watering eyes
reddenning of the skin
Dermatitis (skin inflammation)

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
Adapt to the nature and extent of fire.
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
Oxides of phosphorus
Oxides of sulphur
Oxides of nitrogen
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

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

Keep unprotected persons away.
Ensure sufficient supply of air.
Avoid contact with eyes or skin.
If applicable, caution - risk of slipping.

#### 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 at room temperature.
Protect from frost.

#### 7.3 Specific end use(s)

No information available at present.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Sulfonic acids, C14-17-sec-alkane, sodium salts
<table>
<thead>
<tr>
<th>Area of application</th>
<th>Exposure route / Environmental compartment</th>
<th>Effect on health</th>
<th>Descriptor</th>
<th>Value</th>
<th>Unit</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment - freshwater</td>
<td>PNEC</td>
<td>0.04</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - marine</td>
<td>PNEC</td>
<td>0.004</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - water, sporadic (intermittent) release</td>
<td>PNEC</td>
<td>0.06</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, freshwater</td>
<td>PNEC</td>
<td>9.4</td>
<td>mg/kg dw</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, marine</td>
<td>PNEC</td>
<td>0.94</td>
<td>mg/kg dw</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - soil</td>
<td>PNEC</td>
<td>9.4</td>
<td>mg/kg dw</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sewage treatment plant</td>
<td>PNEC</td>
<td>600</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - oral (animal feed)</td>
<td>PNEC</td>
<td>53.3</td>
<td>mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - periodic release</td>
<td>DNEL</td>
<td>0</td>
<td>mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Human - dermal</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>3.57</td>
<td>mg/kg bw/d</td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Human - inhalation</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>12.4</td>
<td>mg/m³</td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Human - oral</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>7.1</td>
<td>mg/kg bw/d</td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Human - dermal</td>
<td>Short term, local effects</td>
<td>DNEL</td>
<td>2.8</td>
<td>mg/cm²</td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Human - dermal</td>
<td>Long term, local effects</td>
<td>DNEL</td>
<td>2.8</td>
<td>mg/cm²</td>
<td></td>
</tr>
<tr>
<td>Workers / employees</td>
<td>Human - dermal</td>
<td>Short term, local effects</td>
<td>DNEL</td>
<td>2.8</td>
<td>mg/cm²</td>
<td></td>
</tr>
<tr>
<td>Workers / employees</td>
<td>Human - dermal</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>5</td>
<td>mg/kg bw/d</td>
<td></td>
</tr>
<tr>
<td>Workers / employees</td>
<td>Human - inhalation</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>35</td>
<td>mg/m³</td>
<td></td>
</tr>
<tr>
<td>Workers / employees</td>
<td>Human - dermal</td>
<td>Long term, local effects</td>
<td>DNEL</td>
<td>2.8</td>
<td>mg/cm²</td>
<td></td>
</tr>
</tbody>
</table>

### Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, chlorides

<table>
<thead>
<tr>
<th>Area of application</th>
<th>Exposure route / Environmental compartment</th>
<th>Effect on health</th>
<th>Descriptor</th>
<th>Value</th>
<th>Unit</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment - soil</td>
<td>PNEC</td>
<td>0.61</td>
<td>mg/kg dw</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sewage treatment plant</td>
<td>PNEC</td>
<td>0.19</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - oral (animal feed)</td>
<td>PNEC</td>
<td>16.7</td>
<td>mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - freshwater</td>
<td>PNEC</td>
<td>0.004</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - marine</td>
<td>PNEC</td>
<td>0.0004</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - water, sporadic (intermittent) release</td>
<td>PNEC</td>
<td>0.0014</td>
<td>mg/l</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, freshwater</td>
<td>PNEC</td>
<td>4.8</td>
<td>mg/kg dw</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, marine</td>
<td>PNEC</td>
<td>0.48</td>
<td>mg/kg dw</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Human - dermal</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>0.9</td>
<td>mg/kg bw/day</td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Human - inhalation</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>3.1</td>
<td>mg/m³</td>
<td></td>
</tr>
</tbody>
</table>
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 374).
If applicable
Protective gloves in butyl rubber (EN 374).
Protective Neoprene® / polychloroprene gloves (EN 374).
Protective nitrile gloves (EN 374).
Protective PVC gloves (EN 374)
Minimum layer thickness in mm:
0,5
Permeation time (penetration time) in minutes:
480
Protective hand cream recommended.
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

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

Respiratory protection:
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: Liquid
- Colour: White
- Odour: Characteristic
- Odour threshold: Not determined
- pH-value: 7.8 (100%)
- Melting point/freezing point: Not determined
- Initial boiling point and boiling range: Not determined
- Flash point: Not determined
- Evaporation rate: Not determined
- Flammability (solid, gas): n.a.
- Lower explosive limit: Not determined
- Upper explosive limit: Not determined
- Vapour pressure: Not determined
- Vapour density (air = 1): Not determined
- Density: 1.09 g/ml (20°C)
- Bulk density: n.a.
- Solubility(ies): Not determined
- Water solubility: Mixable
- Partition coefficient (n-octanol/water): Not determined
- Auto-ignition temperature: Not determined
- Decomposition temperature: Not determined
- Viscosity: Not determined
- Explosive properties: Product is not explosive.
- Oxidising properties: No

9.2 Other information

- Miscibility: Not determined
- Fat solubility / solvent: Not determined
- Conductivity: Not determined
- Surface tension: Not determined
- Solvents content: Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

None known

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by oral route</td>
<td>ATE</td>
<td>&gt;2000</td>
<td>mg/kg</td>
<td></td>
<td></td>
<td>calculated value</td>
</tr>
</tbody>
</table>
### Sulfonic acids, C14-17-sec-alkane, sodium salts

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by oral route:</td>
<td>LD50</td>
<td>&gt;500-2000</td>
<td>mg/kg</td>
<td>Rat</td>
<td>OECD 401 (Acute Oral Toxicity)</td>
<td>Anlogous conclusion</td>
</tr>
<tr>
<td>Acute toxicity, by dermal route:</td>
<td>LD50</td>
<td>&gt;2000</td>
<td>mg/kg</td>
<td>Mouse</td>
<td>OECD 404 (Acute Dermal Irritation/Corrosion)</td>
<td>Skin Irr. 2</td>
</tr>
</tbody>
</table>

### Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, chlorides

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenicity:</td>
<td></td>
<td></td>
<td></td>
<td>Rat</td>
<td>OECD 406 (Skin Sensitisation)</td>
<td>No (skin contact)</td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td></td>
<td></td>
<td></td>
<td>Guinea pig</td>
<td>OECD 401 (Acute Oral Toxicity)</td>
<td>No indications of such an effect.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation:</td>
<td></td>
<td></td>
<td></td>
<td>Guinea pig</td>
<td>OECD 406 (Skin Sensitisation)</td>
<td>No indications of such an effect.</td>
</tr>
<tr>
<td>Reproductive toxicity:</td>
<td>200</td>
<td>mg/kg</td>
<td>Rat</td>
<td></td>
<td></td>
<td>No indications of such an effect.</td>
</tr>
</tbody>
</table>

### tetrasodium (1-hydroxyethylidene)bisphosphonate

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by oral route:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by dermal route:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation:</td>
<td>OECD 431 (In Vitro Skin Corrosion - Human Skin Model Test)</td>
<td>Non-caustic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation:</td>
<td>OECD 437 (Bovine Corneal Opacity + Permeability Test for Identif. Ocular Corros. + Severe Irritants)</td>
<td>Non-caustic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitisation:</td>
<td>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity:</td>
<td>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reproductive toxicity:</td>
<td>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aspiration hazard:</td>
<td>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Symptoms:</td>
<td>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Acute toxicity, by oral route:  LD50  200 - 2000 mg/kg  Rat  OECD 401 (Acute Oral Toxicity)

Skin corrosion/irritation:  atzend  Rabbit  OECD 404 (Acute Dermal Irritation/Corrosion)

Specific target organ toxicity - repeated exposure (STOT-RE), oral:  NOAEL  75 mg/kg  Rat  OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)  Analogous conclusion

**Fatty alcohol polyglycol ethers**

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, by oral route:</td>
<td>LD50</td>
<td>&gt;2000</td>
<td>mg/kg</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation:</td>
<td></td>
<td></td>
<td></td>
<td>Rabbit</td>
<td></td>
<td>Not irritant</td>
</tr>
<tr>
<td>Serious eye damage/irritation:</td>
<td></td>
<td></td>
<td></td>
<td>Rabbit</td>
<td>OECD 406 (Skin Sensitisation)</td>
<td>Risk of serious damage to eyes.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OECD 406 (Skin Sensitisation)</td>
<td>Not sensitizing (Analogous conclusion)</td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Ames-Test)</td>
<td>Negative, Analogous conclusion</td>
</tr>
</tbody>
</table>

**SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).
12.2. Persistence and degradability:

The surfactant(s) contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.


12.5. Results of PBT and vPvB assessment n.d.a.

12.6. Other adverse effects: n.d.a.

Other information:

DOC-elimination degree (complexing organic substance) >= 80%/28d: No

tetrasodium (1-hydroxyethylidene)bisphosphonate

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>368</td>
<td>mg/l</td>
<td>Oncorhynchus mykiss</td>
<td>OECD 203 (Fish, Acute Toxicity Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>868</td>
<td>mg/l</td>
<td>Lepomis macrochirus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.3. Bioaccumulative potential:</td>
<td>Log Pow</td>
<td>48h</td>
<td>527</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sulfonic acids, C14-17-sec-alkane, sodium salts

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>1 -10</td>
<td>mg/l</td>
<td>Brachydanio rerio</td>
<td>OECD 203 (Fish, Acute Toxicity Test)</td>
<td></td>
</tr>
</tbody>
</table>
12.1. Toxicity to fish: NOEC/NOEL 28d 0,85 mg/l Oncorhynchus mykiss OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)

12.1. Toxicity to daphnia: NOEC/NOEL 22d 0,36 mg/l Daphnia magna OECD 202 (Daphnia sp. Acute Immobilisation Test)

12.1. Toxicity to daphnia: EC50 48h 9,81 mg/l Daphnia magna OECD 202 (Daphnia sp. Acute Immobilisation Test)

12.1. Toxicity to algae: EC50 72h >61 mg/l Scenedesmus subspicatus OECD 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability: 28d 96,2 % activated sludge OECD 304 A (Inherent Biodegradability in Soil) Readily biodegradable

12.2. Persistence and degradability: 28d 78 % activated sludge OECD 301 B (Ready Biodegradability - CO2 Evolution Test) Readily biodegradable

12.2. Persistence and degradability: 28d 89 % activated sludge OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) Readily biodegradable

12.3. Bioaccumulative potential: Not accepted due to the log Pow - value.

12.5. Results of PBT and vPvB assessment Toxicity to bacteria: NOEC/NOEL 16h 600 mg/l Pseudomonas putida DIN 38412 T.8 No PBT substance, No vPvB substance

Other organisms: NOEC/NOEL 56d 470 mg/kg Eisenia fetida OECD 222 (Earthworm Reproduction Test (Eisenia fetida/Eisenia andreii))

Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, chlorides

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>4,2</td>
<td>mg/l</td>
<td>Brachydanio rerio</td>
<td>OECD 203 (Fish, Acute Toxicity Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EC50</td>
<td>48h</td>
<td>0,53</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td>OECD 202 (Daphnia sp. Acute Immobilisation Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>EC50</td>
<td>72h</td>
<td>0,35</td>
<td>mg/l</td>
<td>Desmodesmus subspicatus</td>
<td>OECD 201 (Alga, Growth Inhibition Test)</td>
<td></td>
</tr>
</tbody>
</table>
### 12.2. Persistence and degradability:

<table>
<thead>
<tr>
<th>Time</th>
<th>% Degradation</th>
</tr>
</thead>
<tbody>
<tr>
<td>28d</td>
<td>~ 87 %</td>
</tr>
</tbody>
</table>

OECD 301 B (Ready Biodegradability - CO2 Evolution Test)

### 12.3. Bioaccumulative potential:

Log Pow < 3

### 12.4. Mobility in soil:

Low

### 12.5. Results of PBT and vPvB assessment:

Toxicity to bacteria:

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
<td>3h</td>
<td>19 mg/l</td>
<td></td>
<td></td>
<td>OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))</td>
</tr>
</tbody>
</table>

Other organisms:

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOEC/NOEL</td>
<td></td>
<td>125 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Other information:

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOC</td>
<td></td>
<td>252 mg/g</td>
<td></td>
</tr>
<tr>
<td>COD</td>
<td></td>
<td>767 mg/g</td>
<td></td>
</tr>
</tbody>
</table>

Fatty alcohol polyglycol ethers

<table>
<thead>
<tr>
<th>Toxicity / effect</th>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>1-10 mg/l</td>
<td>Brachydanio rerio</td>
<td>OECD 203 (Fish, Acute Toxicity Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>EC50</td>
<td>72h</td>
<td>1.6 mg/l</td>
<td>Selenastrum capricornutum</td>
<td>OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))</td>
<td></td>
</tr>
<tr>
<td>12.2. Persistence and degradability:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OECD 301 A (Ready Biodegradability - DOC Die-Away Test)</td>
<td></td>
</tr>
<tr>
<td>Toxicity to bacteria:</td>
<td>EC50</td>
<td></td>
<td>50-500 mg/l</td>
<td>OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other information:

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOC</td>
<td></td>
<td>510 mg/g</td>
<td></td>
</tr>
<tr>
<td>COD</td>
<td></td>
<td>1950 mg/g</td>
<td></td>
</tr>
</tbody>
</table>

### 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.
15 01 02 plastic packaging

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: n.a.
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: n.a.
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: n.a.
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
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:
Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): < 0,01 %

REGULATION (EC) No 648/2004
5 % or over but less than 15 %
anionic surfactants
phosphonates
less than 5 %
cationic surfactants
non-ionic surfactants
zeolites
optical brighteners

Where a liquid consumer laundry detergent in dosages for single use is contained in a soluble packaging, the following shall apply:
- The outer packaging must bear the P102 wording.
15.2 Chemical safety assessment
A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Classified sections: 2, 3, 4, 9, 11, 16

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):

<table>
<thead>
<tr>
<th>Classification in accordance with regulation (EC) No. 1272/2008 (CLP)</th>
<th>Evaluation method used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2, H319</td>
<td>Classification based on test data.</td>
</tr>
<tr>
<td>Skin Irrit. 2, H315</td>
<td>Classification according to calculation procedure.</td>
</tr>
</tbody>
</table>

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).
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Eye Irrit. — Eye irritation
Skin Irrit. — Skin irritation
Acute Tox. — Acute toxicity - oral
Eye Dam. — Serious eye damage
Aquatic Chronic — Hazardous to the aquatic environment - chronic
Aquatic Acute — Hazardous to the aquatic environment - acute
STOT RE — Specific target organ toxicity - repeated exposure
Skin Corr. — Skin corrosion

Any abbreviations and acronyms used in this document:

AC Article Categories
acc., acc. to according, according to
ACGIH American Conference of Governmental Industrial Hygienists
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
ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
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
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 24.04.2019 / 0002
Replacing version dated / version: 16.02.2018 / 0001
Valid from: 24.04.2019
PDF print date: 24.04.2019

PRIMA TEX

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
bw  body weight
CAS Chemical Abstracts Service
CEC  Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids
CESIO Comité 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
DVS  Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)
dw  dry weight
eg. for example (abbreviation of Latin 'exempli gratia'), for instance
EC  European Community
ECHA European Chemicals Agency
EEA European Economic Area
EEC European Economic Community
EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European List of Notified Chemical Substances
EN European Norms
EEA European Economic Area
ES Exposure scenario
etc. et cetera
eu European Union
EWC European Waste Catalogue
Fax. Fax number
ECO European Communities
IDO International Donna's Organisms
GHS Globally Harmonized System of Classification and Labelling of Chemicals
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
IBC Intermediate Bulk Container
IBC (Code) International Bulk Chemical (Code)
IC Inhibitory concentration
IMDG-code International Maritime Code for Dangerous Goods
incl. including, inclusive
IUCLID International Uniform Chemical Information Database
LC lethal concentration
LC50 lethal concentration 50 percent kill
LCLo lowest published lethal concentration
LD Lethal Dose of a chemical
LD50 Lethal Dose, 50% kill
LDLo Lethal Dose Low
LOAEL Lowest Observed Adverse Effect Level
LOEC Lowest Observed Effect Concentration
LOEL Lowest Observed Effect Level
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
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:

**Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90**

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.