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

Quick & Shine

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

Relevant identified uses of the substance or mixture:
Car care
Cleaner

Sector of use [SU]:
SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:
PC31 - Polishes and wax blends

Process category [PROC]:
PROC 7 - Industrial spraying
PROC 10 - Roller application or brushing

Environmental Release Category [ERC]:
ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

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, Germany
Phone: +49 (0) 2303/9 86 70 - 0, Fax: +49 (0) 2303/9 86 70 - 26
KCU@KOCH-CHEMIE.de, www.KOCH-CHEMIE.de

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 (KCC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)
The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)
EUH210-Safety data sheet available on request.

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
2-Butoxyethanol
Substance for which an EU exposure limit value applies.

<table>
<thead>
<tr>
<th>Registration number (REACH)</th>
<th>01-2119475108-36-XXXX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index</td>
<td>603-014-00-0</td>
</tr>
<tr>
<td>EINECS, ELINCS, NLP</td>
<td>203-905-0</td>
</tr>
<tr>
<td>CAS</td>
<td>111-76-2</td>
</tr>
<tr>
<td>content %</td>
<td>1-&lt;10</td>
</tr>
<tr>
<td>Classification according to Regulation (EC) 1272/2008 (CLP)</td>
<td>Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315 Acute Tox. 4, H312 Acute Tox. 4, H332</td>
</tr>
</tbody>
</table>

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
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.

4.3 Indication of any immediate medical attention and special treatment needed
n.c.
SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
- CO2
- Water jet spray
- Foam
- 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
- Toxic gases

5.3 Advice for firefighters
- Protective respirator with independent air supply.
- In case of fire and/or explosion do not breathe fumes.
- Cool container at risk with water.
- Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Ensure sufficient supply of air.
- Avoid contact with eyes.
- Avoid long lasting or intensive contact with 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.
- Do not pour down the drain undiluted.

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.

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.
- 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
- Store product closed and only in original packing.
- Not to be stored in gangways or stair wells.
- Stability during storage:
  >= 36 months.
### 7.3 Specific end use(s)
No information available at present.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>2-Butoxyethanol</th>
<th>Content %: 1&lt;10</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL-TWA</td>
<td>25 ppm (123 mg/m³) (WEL), 20 ppm (98 mg/m³) (EU)</td>
<td>WEL-STEL: 50 ppm (246 mg/m³) (WEL, EU)</td>
</tr>
<tr>
<td>BMGV</td>
<td>240 mmol butoxyacetic acid/mol creatinine in urine, post shift (BMGV)</td>
<td></td>
</tr>
<tr>
<td>Other information:</td>
<td>Sk (WEL)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>2-Butoxyethanol</th>
<th>Content %: 1&lt;10</th>
</tr>
</thead>
<tbody>
<tr>
<td>OELV-8h</td>
<td>20 ppm (98 mg/m³) (OELV-8h, EC)</td>
<td>OELV-15min: 50 ppm (246 mg/m³) (OELV-15min, EC)</td>
</tr>
<tr>
<td>BLV</td>
<td>200 mg/g creatinine (Butoxyacetic acid (BAA) in urine, h) (ACGIH-BEI)</td>
<td></td>
</tr>
<tr>
<td>Other information:</td>
<td>Sk, IOELV</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>2-Butoxyethanol</th>
<th>Content %: 1&lt;10</th>
</tr>
</thead>
<tbody>
<tr>
<td>OELV-8h</td>
<td>20 ppm (98 mg/m³) (OELV-8h, UE)</td>
<td>OELV-ST: 50 ppm (246 mg/m³) (OELV-ST, UE)</td>
</tr>
<tr>
<td>BMWGV</td>
<td>240 mmol butoxyacetic acid/mol creatinine in urine, post shift (BMGV)</td>
<td></td>
</tr>
<tr>
<td>Other information:</td>
<td>Skin</td>
<td></td>
</tr>
</tbody>
</table>

**WEL-TWA** = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany).
Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany).
Other information: Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

**OELV-8h** = Occupational Exposure Limit Value - 8 h (8-hour reference period as a time-weighted average)
Other information: Skin = Possibility of a significant uptake through the skin.
### 2-Butoxyethanol

#### Area of application

<table>
<thead>
<tr>
<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></td>
<td>PNEC</td>
<td>8.8</td>
<td>mg/l</td>
<td></td>
</tr>
<tr>
<td>Environment - marine</td>
<td></td>
<td>PNEC</td>
<td>0.88</td>
<td>mg/l</td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, freshwater</td>
<td></td>
<td>PNEC</td>
<td>34.6</td>
<td>mg/kg dw</td>
<td></td>
</tr>
<tr>
<td>Environment - soil</td>
<td></td>
<td>PNEC</td>
<td>2.8</td>
<td>mg/kg dw</td>
<td></td>
</tr>
<tr>
<td>Environment - sewage treatment plant</td>
<td></td>
<td>PNEC</td>
<td>463</td>
<td>mg/l</td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, marine</td>
<td></td>
<td>PNEC</td>
<td>3.46</td>
<td>mg/kg dw</td>
<td></td>
</tr>
<tr>
<td>Environment - sporadic (intermittent) release</td>
<td></td>
<td>PNEC</td>
<td>9.1</td>
<td>mg/l</td>
<td></td>
</tr>
</tbody>
</table>

#### Consumer

| Human - dermal                              | Short term, systemic effects | DNEL | 44.5 | mg/kg bw/d |      |
| Human - inhalation                          | Short term, systemic effects | DNEL | 428  | mg/m3      |      |
| Human - oral                                | Short term, systemic effects | DNEL | 13.4 | mg/kg bw/d |      |
| Human - inhalation                          | Short term, local effects    | DNEL | 123  | mg/m3      |      |

#### Consumer - Long term, systemic effects

| Human - dermal                              | Long term, systemic effects  | DNEL | 38   | mg/kg bw/d |      |
| Human - inhalation                          | Long term, systemic effects  | DNEL | 49   | mg/m3      |      |
| Human - oral                                | Long term, systemic effects  | DNEL | 3.2  | mg/kg bw/d |      |

#### Workers / employees - Human - dermal

| Short term, systemic effects | DNEL | 89 | mg/kg bw/d |

#### Workers / employees - Human - inhalation

| Short term, systemic effects | DNEL | 663 | mg/m3 |

#### Workers / employees - Human - dermal

| Short term, local effects | DNEL | 246 | mg/m3 |

#### Workers / employees - Human - inhalation

| Long term, systemic effects | DNEL | 75  | mg/kg bw/d |

#### Workers / employees - Human - inhalation

| Long term, systemic effects | DNEL | 98  | mg/m3 |

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques. These are specified by e.g. EN 14042. EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:
- Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:
- Recommended
- Protective gloves in butyl rubber (EN 374).
- Minimum layer thickness in mm:
Quick & Shine

Permeation time (penetration time) in minutes: > 120
The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.
The recommended maximum wearing time is 50% of breakthrough time.
Preventative skin protection advisable.

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

Respiratory protection:
Normally not necessary.
If OES or MEL is exceeded.
Filter A (EN 14387), code colour brown
Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:
Not applicable

Additional information on hand protection - No tests have been performed.
In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.
Selection of materials derived from glove manufacturer's indications.
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.
The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls
No information available at present.

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Opaque</td>
</tr>
<tr>
<td>Odour</td>
<td>Fruity</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH-value</td>
<td>6</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;63 °C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>n.a.</td>
</tr>
<tr>
<td>Lower explosive limit</td>
<td>n.a.</td>
</tr>
<tr>
<td>Upper explosive limit</td>
<td>n.a.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapour density (air = 1)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Density</td>
<td>1 g/ml</td>
</tr>
<tr>
<td>Bulk density</td>
<td>n.a.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Mixable</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not determined</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Product is not explosive.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No</td>
</tr>
</tbody>
</table>

9.2 Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miscibility</td>
<td>Not determined</td>
</tr>
<tr>
<td>Fat solubility / solvent</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

SECTION 9: Physical and chemical properties
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
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>Quick &amp; Shine</th>
<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></td>
<td>Acute toxicity, by oral route:</td>
<td>ATE</td>
<td>&gt;5000</td>
<td>mg/kg</td>
<td></td>
<td></td>
<td>calculated value</td>
</tr>
<tr>
<td></td>
<td>Acute toxicity, by dermal route:</td>
<td>ATE</td>
<td>&gt;5000</td>
<td>mg/kg</td>
<td></td>
<td></td>
<td>calculated value</td>
</tr>
<tr>
<td></td>
<td>Acute toxicity, by inhalation:</td>
<td>ATE</td>
<td>&gt;20</td>
<td>mg/l/4h</td>
<td></td>
<td></td>
<td>calculated value, Vapours</td>
</tr>
<tr>
<td></td>
<td>Acute toxicity, by inhalation:</td>
<td>ATE</td>
<td>&gt;5</td>
<td>mg/l/4h</td>
<td></td>
<td></td>
<td>calculated value, Aerosol</td>
</tr>
<tr>
<td></td>
<td>Skin corrosion/irritation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td></td>
<td>Serious eye damage/irritation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td></td>
<td>Respiratory or skin sensitisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td></td>
<td>Germ cell mutagenicity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td></td>
<td>Carcinogenicity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td></td>
<td>Reproductive toxicity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td></td>
<td>Aspiration hazard:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td></td>
<td>Symptoms:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
</tbody>
</table>

2-Butoxyethanol

<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>1746</td>
<td>mg/kg</td>
<td>Rat</td>
<td>OECD 401 (Acute Oral Toxicity)</td>
<td>Does not conform with EU classification.</td>
</tr>
<tr>
<td>Acute toxicity, by dermal route:</td>
<td>LD50</td>
<td>2275</td>
<td>mg/kg</td>
<td>Rabbit</td>
<td>OECD 402 (Acute Dermal Toxicity)</td>
<td>Does not conform with EU classification.</td>
</tr>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td>LC50</td>
<td>2-20</td>
<td>mg/l</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Serious eye damage/irritation: Rabbit OECD 405 (Acute Eye Irritation/Corrosion) Eye Irrit. 2

Respiratory or skin sensitisation: Guinea pig OECD 406 (Skin Sensitisation) Not sensitising

Germ cell mutagenicity: Mouse OECD 474 (Mammalian Erythrocyte Micronucleus Test) Negative

Germ cell mutagenicity: Salmonella typhimurium OECD 471 (Bacterial Reverse Mutation Test) Negative

Carcinogenicity: Rat OECD 451 (Carcinogenicity Studies) Negative

Carcinogenicity: NOAEC 125 ppm Mouse OECD 451 (Carcinogenicity Studies) Negative

Symptoms: acidosis, ataxia, breathing difficulties, respiratory distress, drowsiness, unconsciousness, annoyance, coughing, headaches, gastrointestinal disturbances, insomnia, mucous membrane irritation, dizziness

Specific target organ toxicity - repeated exposure (STOT-RE), oral: NOAEL <69 mg/kg bw/d Rat OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

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

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 complies (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.

### 2-Butoxyethanol

<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>1474</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>NOEC/NOEL</td>
<td>21d</td>
<td>&gt;100</td>
<td>mg/l</td>
<td>Brachydanio rerio</td>
<td>OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EC50</td>
<td>48h</td>
<td>1550</td>
<td>mg/l</td>
<td>112</td>
<td>OECD 202 (Daphnia sp. Acute Immobilisation Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>NOEC/NOEL</td>
<td>21d</td>
<td>100</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td>OECD 211 (Daphnia magna Reproduction Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>EC50</td>
<td>72h</td>
<td>1840</td>
<td>mg/l</td>
<td>Pseudokirchneriella subcapitata</td>
<td>OECD 201 (Alga, Growth Inhibition Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>NOEC/NOEL</td>
<td>72h</td>
<td>286</td>
<td>mg/l</td>
<td>Pseudokirchneriella subcapitata</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>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>28d</td>
<td>&gt;99%</td>
<td>OECD 302 B (Inherent Biodegradability - Zahn-Wellens/EMPA Test)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF</td>
<td>3.2</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>0.83</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.4. Mobility in soil:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>H (Henry)</td>
<td>0.00000 atm*m/mol</td>
</tr>
</tbody>
</table>

12.5. Results of PBT and vPvB assessment

- No PBT substance, No vPvB substance

Toxicity to bacteria:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC0</td>
<td>16h 700 mg/l Pseudomonas putida DIN 38412 T.8</td>
</tr>
</tbody>
</table>

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)

- 07 06 01 aqueous washing liquids and mother liquors
- 07 06 99 wastes not otherwise specified

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.

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.

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**
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.

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**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): < 6,1 %

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

perfumes
LIMONENE
LAURYLAMINE DIPROPYLENEDIAMINE
 METHYLISOTHIAZOLINONE
 BENZISOTHIAZOLINONE

15.2 Chemical safety assessment
A chemical safety assessment is not provided for mixtures.

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**SECTION 16: Other information**

Revised sections: 8

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).
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

Acute Tox. — Acute toxicity - oral
Eye Irrit. — Eye irritation
Skin Irrit. — Skin irritation
Acute Tox. — Acute toxicity - dermal
Acute Tox. — Acute toxicity - inhalation

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Any abbreviations and acronyms used in this document:

AC Article Categories
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: