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

FOROL

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

Relevant identified uses of the substance or mixture:
Universal cleaner
Cleaner for all waterproof surfaces

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:
---

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)
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
3-butoxypropan-2-ol
Registration number (REACH) 01-2119475527-28-XXXX
Index 603-052-00-8
EINECS, ELINCS, NLP 225-878-4
CAS 5131-66-8
content % 1-5
Classification according to Regulation (EC) 1272/2008 (CLP) Eye Irrit. 2, H319
Skin Irrit. 2, H315

Fatty alcohol, ethoxylated, propoxylated
Registration number (REACH) ---
Index ---
EINECS, ELINCS, NLP 614-340-8 (REACH-IT List-No.)
CAS 68154-97-2
content % 1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP) Eye Irrit. 2, H319

Alcohols, C9-11, ethoxylated
Registration number (REACH) ---
Index ---
EINECS, ELINCS, NLP ---
CAS 68439-46-3
content % 1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP) Eye Irrit. 2, H319

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
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 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.
Remove possible causes of ignition - do not smoke.
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.
Diluting with water is possible.
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.
Do not heat to temperatures close to flash point.
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
FOROL

Store product closed and only in original packing. 
Not to be stored in gangways or stair wells. 
Protect from direct sunlight and warming. 
Store in a well-ventilated place. 
Store at room temperature.

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>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></td>
<td>0,525</td>
<td>mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - marine</td>
<td>PNEC</td>
<td></td>
<td>0,0525</td>
<td>mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - periodic release</td>
<td>PNEC</td>
<td></td>
<td>5,25</td>
<td>mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sewage treatment plant</td>
<td>PNEC</td>
<td></td>
<td>10</td>
<td>mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, freshwater</td>
<td>PNEC</td>
<td></td>
<td>2,36</td>
<td>mg/kg dry weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - sediment, marine</td>
<td>PNEC</td>
<td></td>
<td>0,236</td>
<td>mg/kg dry weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment - soil</td>
<td>PNEC</td>
<td></td>
<td>0,16</td>
<td>mg/kg dry weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Human - dermal</td>
<td>Short term, local effects</td>
<td>DNEL</td>
<td>50</td>
<td>% (w/w)</td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Human - inhalation</td>
<td>Short term, local effects</td>
<td>DNEL</td>
<td>50</td>
<td>% (w/w)</td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Human - dermal</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>44</td>
<td>mg/kg</td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Human - inhalation</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>270,5</td>
<td>mg/m3</td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Human - dermal</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>50</td>
<td>% (w/w)</td>
<td></td>
</tr>
<tr>
<td>Workers / employees</td>
<td>Human - dermal</td>
<td>Short term, local effects</td>
<td>DNEL</td>
<td>50</td>
<td>% (w/w)</td>
<td></td>
</tr>
<tr>
<td>Workers / employees</td>
<td>Human - dermal</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>16</td>
<td>mg/kg</td>
<td></td>
</tr>
<tr>
<td>Workers / employees</td>
<td>Human - inhalation</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>33,8</td>
<td>mg/m3</td>
<td></td>
</tr>
<tr>
<td>Workers / employees</td>
<td>Human - oral</td>
<td>Long term, systemic effects</td>
<td>DNEL</td>
<td>8,75</td>
<td>mg/kg</td>
<td></td>
</tr>
<tr>
<td>Workers / employees</td>
<td>Human - dermal</td>
<td>Long term, local effects</td>
<td>DNEL</td>
<td>50</td>
<td>% (w/w)</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).
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.

<table>
<thead>
<tr>
<th>SECTION 9: Physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1 Information on basic physical and chemical properties</td>
</tr>
<tr>
<td>Physical state:</td>
</tr>
<tr>
<td>Colour:</td>
</tr>
<tr>
<td>Odour:</td>
</tr>
<tr>
<td>Odour threshold:</td>
</tr>
<tr>
<td>pH-value:</td>
</tr>
<tr>
<td>Melting point/freezing point:</td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
</tr>
<tr>
<td>Flash point:</td>
</tr>
<tr>
<td>Evaporation rate:</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
</tr>
<tr>
<td>Lower explosive limit:</td>
</tr>
<tr>
<td>Upper explosive limit:</td>
</tr>
<tr>
<td>Vapour pressure:</td>
</tr>
<tr>
<td>Vapour density (air = 1):</td>
</tr>
<tr>
<td>Density:</td>
</tr>
<tr>
<td>Bulk density:</td>
</tr>
</tbody>
</table>
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
Open flame, ignition sources

10.5 Incompatible materials
Avoid contact with strong oxidizing agents.
Avoid contact with strong acids.

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 dermal route:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td>Acute toxicity, by inhalation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td>Skin corrosion/irritation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td>Serious eye damage/irritation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td>Carcinogenicity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td>Reproductive toxicity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td>Aspiration hazard:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
<tr>
<td>Symptoms:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n.d.a.</td>
</tr>
</tbody>
</table>

3-butoxypropan-2-ol
### Toxicity / effect

**Acute toxicity, by oral route:**
- LD50: 3300 mg/kg, Rat
- LD50: >2000 mg/kg, Rat

**Acute toxicity, by dermal route:**
- LD50: >2000 mg/kg, Rat

**Acute toxicity, by inhalation:**
- LC50: >3.5 mg/l/4h, Rat, Vapours

**Skin corrosion/irritation:**
- Irritant

**Serious eye damage/irritation:**
- Irritant

**Respiratory or skin sensitisation:**
- Guinea pig, Not sensitising

**Germ cell mutagenicity:**
- Negative

**Carcinogenicity:**
- Negative

**Reproductive toxicity:**
- Negative

**Aspiration hazard:**
- No

**Symptoms:**
- Headaches, gastrointestinal disturbances, nausea

---

### Fatty alcohol, ethoxylated, propoxylated

**Acute toxicity, by oral route:**
- LD50: >5000 mg/kg, Rat

**Skin corrosion/irritation:**
- Rabbit, OECD 404 (Acute Dermal Irritation/Corrosion), Mild irritant

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

**Respiratory or skin sensitisation:**
- OECD 406 (Skin Sensitisation), Not sensitising

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

---

### Alcohols, C9-11, ethoxylated

**Acute toxicity, by oral route:**
- LD50: >2000 mg/kg, Rat

**Skin corrosion/irritation:**
- Rabbit, OECD 404 (Acute Dermal Irritation/Corrosion), Analagous conclusion

**Respiratory or skin sensitisation:**
- OECD 406 (Skin Sensitisation), Not sensitising

---

### SECTION 12: Ecological information

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

---

### Toxicity / effect

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Time</th>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
</tr>
</thead>
</table>
12.2. Persistence and degradability:

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


12.5. 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)\(\geq\) 80%/28d: Yes

<table>
<thead>
<tr>
<th>3-butoxypropan-2-ol</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>Other information:</td>
<td>ThOD</td>
<td>0.242</td>
<td>g/g</td>
<td></td>
<td>Pimephales promelas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>&gt;100</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 daphnia:</td>
<td>EC50</td>
<td>48h</td>
<td>1000</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>NOEC/NOEL</td>
<td>96h</td>
<td>560</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>EC50</td>
<td>96h</td>
<td>&gt;1000</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>DOC</th>
<th>28d</th>
<th>90%</th>
<th>activated sludge</th>
<th>OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)</th>
<th>Readily biodegradable</th>
</tr>
</thead>
</table>

### 12.3. Bioaccumulative potential:

<table>
<thead>
<tr>
<th>Log Pow</th>
<th>1.15</th>
<th>A notable biological accumulation potential is not to be expected (LogPow 1-3).</th>
</tr>
</thead>
</table>

### 12.4. Mobility in soil:

<table>
<thead>
<tr>
<th>Koc</th>
<th>1.3-6</th>
<th>Expert judgement25°C</th>
</tr>
</thead>
</table>

### 12.5. Results of PBT and vPvB assessment

<table>
<thead>
<tr>
<th>Toxicity to bacteria:</th>
<th>EC50</th>
<th>180h</th>
<th>&gt;1000 mg/l</th>
<th>activated sludge</th>
<th>OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))</th>
</tr>
</thead>
</table>

Water solubility: 6 - 52 g/l

---

### Fatty alcohol, ethoxylated, propoxylated

<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>&gt;1-10 mg/l</td>
<td>Cyprinus caprio</td>
<td>OECD 203 (Fish, Acute Toxicity Test)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EC50</td>
<td>48h</td>
<td>&gt;1-10 mg/l</td>
<td>Daphnia magna</td>
<td>OECD 202 (Daphnia sp. Acute Immobilisation Test)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>EC50</td>
<td>72h</td>
<td>&gt;1-10 mg/l</td>
<td>Scenedesmus subspicatus</td>
<td>OECD 201 (Alga, Growth Inhibition Test)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.2. Persistence and degradability:</td>
<td>28d</td>
<td>&gt;60%</td>
<td>%</td>
<td>OECD 301 B (Ready Biodegradability - Co2 Evolution Test)</td>
<td>Readily biodegradable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Toxicity to bacteria: | EC10 | 5h | >960 mg/l | Eisenia fetida | OECD 207 (Earthworm, Acute Toxicity Tests) |

---

### Alcohols, C9-11, ethoxylated

<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>&gt;1-&lt;10 mg/l</td>
<td>Onchorhyncus mykiss</td>
<td>OECD 203 (Fish, Acute Toxicity Test)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EC50</td>
<td>48h</td>
<td>&gt;1-10 mg/l</td>
<td>Daphnia magna</td>
<td>Analogous conclusion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>EC50</td>
<td>72h</td>
<td>&gt;1-10 mg/l</td>
<td>Skeletonema costatum</td>
<td>Analogous conclusion</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
12.2. Persistence and degradability:

<table>
<thead>
<tr>
<th>BOD</th>
<th>28d</th>
<th>&gt;60</th>
<th>%</th>
<th>OECD 301 D (Ready Biodegradability - Closed Bottle Test)</th>
<th>OECD 306 (Biodegradability in Seawater)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Readily biodegradable, marine water</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential:

<table>
<thead>
<tr>
<th>Log Pow</th>
<th>2.4</th>
</tr>
</thead>
</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)

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.

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.

**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

**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.

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
FOROL

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):
REGULATION (EC) No 648/2004
5 % or over but less than 15 %
non-ionic surfactants
less than 5 %
anionic surfactants

perfumes
CITRAL
LIMONENE
LINALOOL

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

SECTION 16: Other information

Revised sections:
15

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.
H319 Causes serious eye irritation.
Eye Irrit. — Eye irritation
Skin Irrit. — Skin irritation

Any abbreviations and acronyms used in this document:

AC Article Categories
acc., acc. to according, according to
ACGIHAmerican 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
BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHT</td>
<td>Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)</td>
</tr>
<tr>
<td>BMGV</td>
<td>Biological monitoring guidance value (EH40, UK)</td>
</tr>
<tr>
<td>BOD</td>
<td>Biochemical oxygen demand</td>
</tr>
<tr>
<td>BSEF</td>
<td>Bromine Science and Environmental Forum</td>
</tr>
<tr>
<td>bw</td>
<td>body weight</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service</td>
</tr>
<tr>
<td>CEC</td>
<td>Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids</td>
</tr>
<tr>
<td>CESIO</td>
<td>Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques</td>
</tr>
<tr>
<td>CIPAC</td>
<td>Collaborative International Pesticides Analytical Council</td>
</tr>
<tr>
<td>CLP</td>
<td>Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)</td>
</tr>
<tr>
<td>CMR</td>
<td>carcinogenic, mutagenic, reproductive toxic</td>
</tr>
<tr>
<td>COD</td>
<td>Chemical oxygen demand</td>
</tr>
<tr>
<td>CTFA</td>
<td>Cosmetic, Toiletry, and Fragrance Association</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimum Effect Level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No Effect Level</td>
</tr>
<tr>
<td>DOC</td>
<td>Dissolved organic carbon</td>
</tr>
<tr>
<td>DT50</td>
<td>Dwell Time - 50% reduction of start concentration</td>
</tr>
<tr>
<td>DVS</td>
<td>Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)</td>
</tr>
<tr>
<td>dw</td>
<td>dry weight</td>
</tr>
<tr>
<td>e.g.</td>
<td>for example (abbreviation of Latin 'exempli gratia'), for instance</td>
</tr>
<tr>
<td>EC</td>
<td>European Community</td>
</tr>
<tr>
<td>ECHA</td>
<td>European Chemicals Agency</td>
</tr>
<tr>
<td>EEA</td>
<td>European Economic Area</td>
</tr>
<tr>
<td>EEC</td>
<td>European Economic Community</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Commercial Chemical Substances</td>
</tr>
<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>EN</td>
<td>European Norms</td>
</tr>
<tr>
<td>EPA</td>
<td>United States Environmental Protection Agency (United States of America)</td>
</tr>
<tr>
<td>ERC</td>
<td>Environmental Release Categories</td>
</tr>
<tr>
<td>ES</td>
<td>Exposure scenario</td>
</tr>
<tr>
<td>etc.</td>
<td>et cetera</td>
</tr>
<tr>
<td>EU</td>
<td>European Union</td>
</tr>
<tr>
<td>EWC</td>
<td>European Waste Catalogue</td>
</tr>
<tr>
<td>Fax.</td>
<td>Fax number</td>
</tr>
<tr>
<td>gen.</td>
<td>general</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System of Classification and Labelling of Chemicals</td>
</tr>
<tr>
<td>GWP</td>
<td>Global warming potential</td>
</tr>
<tr>
<td>HET-CAM</td>
<td>Hen's Egg Test - Chorionallantoic Membrane</td>
</tr>
<tr>
<td>HGWP</td>
<td>Halocarbon Global Warming Potential</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IBC</td>
<td>Intermediate Bulk Container</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Code for Dangerous Goods</td>
</tr>
<tr>
<td>incl.</td>
<td>including, inclusive</td>
</tr>
<tr>
<td>IUCLID</td>
<td>International Uniform Chemical Information Database</td>
</tr>
<tr>
<td>LC</td>
<td>lethal concentration</td>
</tr>
<tr>
<td>LC50</td>
<td>lethal concentration 50 percent kill</td>
</tr>
<tr>
<td>LCLo</td>
<td>lowest published lethal concentration</td>
</tr>
<tr>
<td>LD</td>
<td>Lethal Dose of a chemical</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose, 50% kill</td>
</tr>
<tr>
<td>LDL0</td>
<td>Lethal Dose Low</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>LOEC</td>
<td>Lowest Observed Effect Concentration</td>
</tr>
<tr>
<td>LOEL</td>
<td>Lowest Observed Effect Level</td>
</tr>
<tr>
<td>LQ</td>
<td>Limited Quantities</td>
</tr>
<tr>
<td>MARPOL</td>
<td>International Convention for the Prevention of Marine Pollution from Ships</td>
</tr>
<tr>
<td>n.a.</td>
<td>not applicable</td>
</tr>
<tr>
<td>n.av.</td>
<td>not available</td>
</tr>
<tr>
<td>n.c.</td>
<td>not checked</td>
</tr>
</tbody>
</table>
n.d.a. no data available

NIOSH National Institute of Occupational Safety and Health (United States of America)
NOAEC No Observed Adverse Effective Concentration
NOAEL 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
org. organic
PAH polycyclic aromatic hydrocarbon
PBT persistent, bioaccumulative and toxic
PC Chemical product category
PE Polyethylene
PNEC Predicted No Effect Concentration
POCP Photochemical ozone creation potential
ppm parts per million
PROC Process category
PTFE Polytetrafluorethylene
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SADT Self-Accelerating Decomposition Temperature
SAR Structure Activity Relationship
SU Sector of use
SVHC Substances of Very High Concern
Tel. Telephone
ThOD Theoretical oxygen demand
TOC Total organic carbon
TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
WHO World Health Organization
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
No responsibility.

These statements were made by:
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.