SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

VSL 32
VSL 68
VSL 100

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

Relevant identified uses of the substance or mixture:
Lubricant

Uses advised against:
No information available at present.

1.3 Details of the supplier of the safety data sheet

Busch Produktions GmbH
Schausinslandstraße 1
79689 Maulburg
Tel.: +49 (0)7622 681-0

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) 7622 681-0 (BPC)

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>Aquatic Chronic</td>
<td>3</td>
<td>H412-Harmful to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)
SECTION 3: Composition/information on ingredients

3.1 Substance
n.a.

3.2 Mixture
2,6-di-tert-butyl-p-cresol

<table>
<thead>
<tr>
<th>Registration number (REACH)</th>
<th>01-2119555270-46-XXXX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index</td>
<td>---</td>
</tr>
<tr>
<td>EINECS, ELINCS, NLP</td>
<td>204-881-4</td>
</tr>
<tr>
<td>CAS</td>
<td>128-37-0</td>
</tr>
<tr>
<td>content %</td>
<td>1-&lt;2,5</td>
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<tr>
<td>Classification according to Regulation (EC) 1272/2008 (CLP)</td>
<td>Aquatic Acute 1, H400 (M=1)</td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 1, H410 (M=1)</td>
</tr>
</tbody>
</table>

N-1-naphthylaniline

<table>
<thead>
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<td>---</td>
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<tr>
<td>EINECS, ELINCS, NLP</td>
<td>201-983-0</td>
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<tr>
<td>CAS</td>
<td>90-30-2</td>
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<tr>
<td>content %</td>
<td>0,25-&lt;1</td>
</tr>
<tr>
<td>Classification according to Regulation (EC) 1272/2008 (CLP)</td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4, H302</td>
</tr>
<tr>
<td></td>
<td>STOT RE 2, H373 (blood, kidneys)</td>
</tr>
<tr>
<td></td>
<td>Aquatic Acute 1, H400 (M=1)</td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 1, H410 (M=1)</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**
Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms.
Skin contact
Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a 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.
Give copious water to drink - consult doctor immediately.
Do not feed fats, oils or milk.

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.
Sensitive individuals:
Allergic reaction possible.

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
Adapt to the nature and extent of fire.
Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media
High volume water jet

5.2 Special hazards arising from the substance or mixture
In case of fire the following can develop:
Oxides of carbon
Oxides of 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
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.
Fill the absorbed material into lockable containers.
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 sections 8 and 6.1.

7.1 Precautions for safe handling
7.1.1 General recommendations
Ensure good ventilation.
Avoid contact with eyes.
Avoid long lasting or intensive contact with skin.
Eating, drinking, smoking, as well as food storage, is prohibited in work-room.
Observe directions on label and instructions for use.
Use working methods according to operating instructions.

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

7.2 Conditions for safe storage, including any incompatibilities
Keep out of access to unauthorised individuals.
Store product closed and only in original packing.
Not to be stored in gangways or stair wells.
Store in a well-ventilated place.
Store in a dry place.

7.3 Specific end use(s)
No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Content %:1-&lt;2,5</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-di-tert-butyl-p-cresol</td>
<td>&lt;2,5</td>
</tr>
<tr>
<td>WEL-TWA: 10 mg/m3</td>
<td>WEL-STE: ---</td>
</tr>
<tr>
<td>Monitoring procedures: ---</td>
<td>---</td>
</tr>
<tr>
<td>BMGV: ---</td>
<td>Other information: ---</td>
</tr>
<tr>
<td>OELV-8h: 2 mg/m3</td>
<td>OELV-15min: ---</td>
</tr>
<tr>
<td>Monitoring procedures: ---</td>
<td>---</td>
</tr>
<tr>
<td>BLV: ---</td>
<td>Other information: ---</td>
</tr>
<tr>
<td>OELV-8h: ---</td>
<td>OELV-15min: ---</td>
</tr>
<tr>
<td>Monitoring procedures: ---</td>
<td>---</td>
</tr>
<tr>
<td>PDV: 1,5% of hemoglobin (Methemoglobin in blood, during or end of shift) (Methemoglobin inducers) (ACGIH-BEI)</td>
<td>Other information: ---</td>
</tr>
</tbody>
</table>

| 2,6-di-tert-butyl-p-cresol | Environment - soil | PNEC | 1.04 | mg/kg wwt | Note |

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Content %:0,25-&lt;1</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-1-naphthylaniline</td>
<td>&lt;1</td>
</tr>
<tr>
<td>OELV-8h: ---</td>
<td>OELV-15min: ---</td>
</tr>
<tr>
<td>Monitoring procedures: ---</td>
<td>---</td>
</tr>
<tr>
<td>PDV: 1,5% of hemoglobin (Methemoglobin in blood, during or end of shift) (Methemoglobin inducers) (ACGIH-BEI)</td>
<td>Other information: ---</td>
</tr>
</tbody>
</table>
### Environment - sewage treatment plant

- **PNEC** 100 mg/l

### Environment - sediment

- **PNEC** 1.29 mg/kg wwt

### Environment - marine

- **PNEC** 0.4 µg/l

### Environment - periodic release

- **PNEC** 4 µg/l

### Environment - freshwater

- **PNEC** 4 µg/l

### Environment - oral (animal feed)

- **PNEC** 16.7 mg/kg

### Environment - soil

- **PNEC** 1.23 mg/kg

### Consumer Human - inhalation

- **Long term, systemic effects**
- **DNEL** 1.74 mg/m³

### Consumer Human - dermal

- **Long term, systemic effects**
- **DNEL** 5 mg/kg bw/day

### Workers / employees Human - inhalation

- **Long term, systemic effects**
- **DNEL** 5.8 mg/m³

### Workers / employees Human - dermal

- **Long term, systemic effects**
- **DNEL** 8.3 mg/kg bw/day

<table>
<thead>
<tr>
<th><strong>N-1-naphthylaniline</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Area of application</strong></td>
</tr>
<tr>
<td>Environment - freshwater</td>
</tr>
<tr>
<td>Environment - marine</td>
</tr>
<tr>
<td>Environment - sediment, freshwater</td>
</tr>
<tr>
<td>Environment - sediment, marine</td>
</tr>
<tr>
<td>Environment - soil</td>
</tr>
<tr>
<td>Environment - sewage treatment plant</td>
</tr>
<tr>
<td>Consumer Human - inhalation</td>
</tr>
<tr>
<td>Consumer Human - dermal</td>
</tr>
<tr>
<td>Consumer Human - oral</td>
</tr>
<tr>
<td>Workers / employees Human - inhalation</td>
</tr>
<tr>
<td>Workers / employees Human - dermal</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  
**WEL-TWA**, **EH40. AGW** = "Arbeitsplatzgrenzwert" (workplace limit value, Germany)  
**WEL-STEL**, **EH40. AGW** = "Arbeitsplatzgrenzwert" (workplace limit value, Germany)  
**Note**: 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.
exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BLV = Biological limit value | Other information:
Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B
= Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.

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.
Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques. These are specified by e.g. BS EN 14042.
BS 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:
Chemical resistant protective gloves (EN 374). Recommended
Protective nitrile gloves (EN 374). Protective gloves made of polyvinyl alcohol (EN 374)
Minimum layer thickness in mm: 0,5
Permeation time (penetration time) in minutes: 480
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

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

Respiratory protection:
Normally not necessary. In aerosol misting:
Filter A P2 (EN 14387), code colour brown, white
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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid
Colour: Clear
Odour: Characteristic
Odour threshold: Not determined
pH-value: Not determined
Melting point/freezing point: Not determined
Initial boiling point and boiling range: Not determined
Flash point: 235-238 °C
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: 0,832-0,848 g/cm³
Bulk density: n.a.
Solubility(ies): Not determined
Water solubility: Not determined
Partition coefficient (n-octanol/water): Not determined
Auto-ignition temperature: Not determined
Decomposition temperature: Not determined
Viscosity: 34,5 - 98,5 mm²/s (40°C)
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
Protect from humidity.

10.5 Incompatible materials
Avoid contact with strong oxidizing agents.
Avoid contact with strong alkalis.
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 oral route:</td>
<td>LD50</td>
<td>&gt;2930</td>
<td>mg/kg</td>
<td>Rat</td>
<td>OECD 401 (Acute Oral Toxicity)</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by dermal route:</td>
<td>LD50</td>
<td>&gt;2000</td>
<td>mg/kg</td>
<td>Rabbit</td>
<td>OECD 402 (Acute Dermal Toxicity)</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by dermal route:</td>
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<tr>
<td>Skin corrosion/irritation:</td>
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</tbody>
</table>

**2,6-di-tert-butyl-p-cresol**

<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>
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<tbody>
<tr>
<td>Acute toxicity, by oral route:</td>
<td>LD50</td>
<td>&gt;2930</td>
<td>mg/kg</td>
<td>Rat</td>
<td>OECD 401 (Acute Oral Toxicity)</td>
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<tr>
<td>Acute toxicity, by dermal route:</td>
<td>LD50</td>
<td>&gt;2000</td>
<td>mg/kg</td>
<td>Rabbit</td>
<td>OECD 402 (Acute Dermal Toxicity)</td>
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<tr>
<td>Skin corrosion/irritation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Acute toxicity, by dermal route:</td>
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</tr>
<tr>
<td>Skin corrosion/irritation:</td>
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</table>

**N-1-naphthylaniline**

<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>1625</td>
<td>mg/kg</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute toxicity, by dermal route:</td>
<td>LD50</td>
<td>&gt;2000</td>
<td>mg/kg</td>
<td>Rabbit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### SECTION 12: Ecological information

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

#### VSL 32
- VSL 68
- VSL 100

<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>12.5. Results of PBT and vPvB assessment</td>
<td>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.6. Other adverse effects:</td>
<td>n.d.a.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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#### 2,6-di-tert-butyl-p-cresol

<table>
<thead>
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<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 algae:</td>
<td>EC10</td>
<td>72h</td>
<td>0,4</td>
<td>mg/l</td>
<td>Desmodesmus subspicatus</td>
<td>84/449/EEC C.3</td>
<td></td>
</tr>
<tr>
<td>12.4. Mobility in soil:</td>
<td>Log Koc</td>
<td></td>
<td>3,9-4,2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>&gt;0,57</td>
<td>mg/l</td>
<td>Brachydanio rerio</td>
<td>84/449/EEC C.1</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>NOEC/NOEL</td>
<td>42d</td>
<td>0,053</td>
<td>mg/l</td>
<td>Oryzias latipes</td>
<td>OECD 210 (Fish, Early-Life Stage Toxicity Test)</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>EC50</td>
<td>48h</td>
<td>0,45</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>NOEC/NOEL</td>
<td>21d</td>
<td>0,023</td>
<td>mg/l</td>
<td>Daphnia magna</td>
<td>OECD 202 (Daphnia sp. Acute Immobilisation Test)</td>
<td></td>
</tr>
</tbody>
</table>
### 12.2. Persistence and degradability:

<table>
<thead>
<tr>
<th>Time</th>
<th>%</th>
<th>Test method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>28d</td>
<td>4,5</td>
<td>OECD 301 C (Ready Biodegradability - Modified MITI Test (I))</td>
<td>Not readily biodegradable</td>
</tr>
</tbody>
</table>

### 12.1. Toxicity to algae:

<table>
<thead>
<tr>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;0,4</td>
<td>mg/l</td>
<td>Desmodesmus subspicatus</td>
<td>OECD 449/EEC C.3</td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential:

<table>
<thead>
<tr>
<th>Value</th>
<th>Unit</th>
<th>Organism</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>330-1800</td>
<td></td>
<td>Cyprinus caprio</td>
<td>OECD 305 (Bioconcentration - Flow-Through Fish Test)</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil:

<table>
<thead>
<tr>
<th>Value</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>14750</td>
<td>Koc</td>
</tr>
</tbody>
</table>

### 12.5. Results of PBT and vPvB assessment

<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>Toxicity to bacteria</td>
<td>EC50</td>
<td>3h</td>
<td>&gt;10000</td>
<td>mg/l</td>
<td>activated sludge</td>
<td>OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))</td>
<td>No PBT substance</td>
</tr>
</tbody>
</table>

### Other information:

<table>
<thead>
<tr>
<th>Test</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOX</td>
<td>Does not contain any organically bound halogens which can contribute to the AOX value in waste water.</td>
</tr>
</tbody>
</table>

### Water solubility:

<table>
<thead>
<tr>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>0,00076</td>
<td>g/l</td>
</tr>
</tbody>
</table>

### N-1-naphthylaniline

<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>12.3. Bioaccumulative potential:</td>
<td>Log Pow</td>
<td>4,28</td>
<td></td>
<td></td>
<td></td>
<td>High</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>NOEC/NOEL</td>
<td>0,025</td>
<td></td>
<td></td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to fish:</td>
<td>LC50</td>
<td>96h</td>
<td>0,44</td>
<td></td>
<td>Oncorhynchus mykiss</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to daphnia:</td>
<td>EC50</td>
<td>48h</td>
<td>0,32</td>
<td></td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.2. Persistence and degradability:</td>
<td>28d</td>
<td>0</td>
<td>%</td>
<td></td>
<td>OECD 301 C (Ready Biodegradability - Modified MITI Test (I))</td>
<td>Not readily biodegradable</td>
<td></td>
</tr>
<tr>
<td>12.1. Toxicity to algae:</td>
<td>EC50</td>
<td>72h</td>
<td>0,25</td>
<td></td>
<td>Desmodesmus subspicatus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.5. Results of PBT and vPvB assessment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No PBT substance, No vPvB substance</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Toxicity to bacteria:

<table>
<thead>
<tr>
<th>EC50</th>
<th>3h</th>
<th>&gt;10000 mg/l</th>
<th>OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></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 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:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Classification code: n.a.

LQ: n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Marine Pollutant: n.a.

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

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
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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Valid from: 15.01.2020
PDF print date: 29.01.2020
VSL 32
VSL 68
VSL 100

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 %
- Directive 2010/75/EU (VOC): < 0,04 g/l

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

### SECTION 16: Other information

Revised sections: 2, 3, 4, 8, 11, 12, 15

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>Aquatic Chronic 3, H412</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.
- H317 May cause an allergic skin reaction.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

**Aquatic Chronic** — Hazardous to the aquatic environment - chronic
**Aquatic Acute** — Hazardous to the aquatic environment - acute
**Skin Sens.** — Skin sensitization
**Acute Tox.** — Acute toxicity - oral
**STOT RE** — Specific target organ toxicity - repeated exposure

**Any abbreviations and acronyms used in this document:**

acc., acc. to according, according to
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOX Adsorbable organic halogen compounds
approx. approximately
Art., Art. no. Article number
ASTM ASTM International (American Society for Testing and Materials)
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)
BSEF The International Bromine Council
bw body weight