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

1.1. Product identifier

Product name: Hydraulic Valve Lifter Concentrate
Product code: W76844

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

1.2.1. Relevant identified uses

Use of the substance/mixture: Oil additive

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Wynn's Belgium
Industriepark-West 46
9100 Sint-Niklaas - Belgium
T +32 3 766 60 20 - F +32 3 778 16 56
msds@wynns.eu - www.wynns.com

1.4. Emergency telephone number

Emergency number: BIG: +32(0)14/58.45.45 (NL FR EN DE)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Eye Irrit. 2 - H319

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP): 

Signal word (CLP): Warning
Hazard statements (CLP): H319 - Causes serious eye irritation.
Precautionary statements (CLP): P102 - Keep out of reach of children.
P280 - Wear eye 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.
P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% w</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-butoxyethoxy)ethanol</td>
<td>(CAS-No.) 112-34-5 (EC-No.) 203-961-6</td>
<td>1 - 2,5</td>
<td>Eye Irrit. 2, H319</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1. Description of first aid measures


First-aid measures after inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: If swallowed, rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray. AFFF foam. ABC-powder.

Unsuitable extinguishing media: None to our knowledge. If there is a fire close by, use suitable extinguishing agents. Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Combustible liquid.

Explosion hazard: Product is not explosive.

5.3. Advice for firefighters

Firefighting instructions: Prevent fire fighting water from entering the environment.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Spill area may be slippery.

6.1.1. For non-emergency personnel

Protective equipment: Wear suitable gloves and eye/face protection, protective clothing.

Emergency procedures: Mark the danger area. Take off contaminated clothing. Prevent flow to low areas.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment: Collect spillage. Contain leaking substance, pump over in suitable containers.

Methods for cleaning up: Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Clean preferably with a detergent - Avoid the use of solvents.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Meet the legal requirements. Presents no particular risk when handled in accordance with good occupational hygiene practice.

Hygiene measures: Use good personal hygiene practices. IF ON SKIN: Gently wash with plenty of soap and water. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Does not require any specific or particular technical measures.

Storage conditions: Store in a dry place. Meet the legal requirements.

Storage area: Meet the legal requirements. Protect from heat and direct sunlight.

Special rules on packaging: Store in a closed container.

7.3. Specific end use(s)

See product bulletin for detailed information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

4-methylpentan-2-ol (108-11-2)

<table>
<thead>
<tr>
<th>Country</th>
<th>Limit Value (mg/m³)</th>
<th>Limit Value (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>106</td>
<td>25</td>
</tr>
<tr>
<td>Belgium</td>
<td>169</td>
<td>40</td>
</tr>
<tr>
<td>Belgium</td>
<td>Remark (BE)</td>
<td>D</td>
</tr>
<tr>
<td>France</td>
<td>VME (mg/m³)</td>
<td>100</td>
</tr>
<tr>
<td>France</td>
<td>VME (ppm)</td>
<td>25</td>
</tr>
<tr>
<td>Germany</td>
<td>TRGS 900 Occupational exposure limit value (mg/m³)</td>
<td>85</td>
</tr>
<tr>
<td>Germany</td>
<td>TRGS 900 Occupational exposure limit value (ppm)</td>
<td>20</td>
</tr>
<tr>
<td>Italy - Portugal - USA</td>
<td>ACGIH TWA (ppm)</td>
<td>25</td>
</tr>
<tr>
<td>Italy - Portugal - USA</td>
<td>ACGIH STEL (ppm)</td>
<td>40</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL TWA (mg/m³)</td>
<td>106</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL TWA (ppm)</td>
<td>25</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL STEL (mg/m³)</td>
<td>170</td>
</tr>
</tbody>
</table>
### 4-methylpentan-2-ol (108-11-2)

| United Kingdom | WEL STEL (ppm) | 40 ppm |

### 2-(2-butoxyethoxy)ethanol (112-34-5)

| EU | IOELV TWA (mg/m³) | 67,5 mg/m³ |
| EU | IOELV TWA (ppm) | 10 ppm |
| EU | IOELV STEL (mg/m³) | 101,2 mg/m³ |
| EU | IOELV STEL (ppm) | 15 ppm |
| Belgium | Limit value (mg/m³) | 67,5 mg/m³ |
| Belgium | Limit value (ppm) | 10 ppm |
| Belgium | Short time value (mg/m³) | 101,2 mg/m³ |
| Belgium | Short time value (ppm) | 15 ppm |
| France | VLE (mg/m³) | 67,5 mg/m³ |
| France | VLE (ppm) | 10 ppm |
| France | VME (mg/m³) | 101,2 mg/m³ |
| France | VME (ppm) | 15 ppm |

### Distillates (petroleum), solvent-dewaxed heavy paraffinic, Baseoil - unspecified (64742-65-0)

| EU | IOELV TWA (mg/m³) | 5 mg/m³ |
| Italy - Portugal - USA | ACGIH TWA (mg/m³) | 5 mg/m³ |

### Cyclohexanone (108-94-1)

| EU | IOELV TWA (mg/m³) | 40,8 mg/m³ |
| EU | IOELV TWA (ppm) | 10 ppm |
| EU | IOELV STEL (mg/m³) | 81,6 mg/m³ |
| EU | IOELV STEL (ppm) | 20 ppm |
| Belgium | Limit value (mg/m³) | 40,8 mg/m³ |
| Belgium | Limit value (ppm) | 10 ppm |
| Belgium | Short time value (mg/m³) | 81,6 mg/m³ |
| Belgium | Short time value (ppm) | 20 ppm |
| Belgium | Remark (BE) | D |

### 4-methylpentan-2-ol (108-11-2)

**DNEL/DMEL (Workers)**
- Acute - systemic effects, inhalation: 208 mg/m³
- Acute - local effects, inhalation: 104 mg/m³
- Long-term - systemic effects, dermal: 11,8 mg/kg bodyweight/day
- Long-term - systemic effects, inhalation: 83 mg/m³
- Long-term - local effects, inhalation: 83 mg/m³

**DNEL/DMEL (General population)**
- Acute - systemic effects, inhalation: 155,2 mg/m³
- Acute - local effects, inhalation: 52,1 mg/m³
- Long-term - systemic effects, oral: 4,2 mg/kg bodyweight/day
- Long-term - systemic effects, inhalation: 14,7 mg/m³
- Long-term - local effects, inhalation: 14,7 mg/m³

**PNEC (Water)**
- PNEC aqua (freshwater): 0,6 mg/l
- PNEC aqua (marine water): 0,06 mg/l
- PNEC aqua (intermittent, freshwater): 3,3 mg/l

**PNEC (Sediment)**
- PNEC sediment (freshwater): 2,94 mg/kg dwt
- PNEC sediment (marine water): 0,3 mg/kg dwt

**PNEC (Soil)**
- PNEC soil: 0,24 mg/kg dwt

**PNEC sewage treatment plant**
- PNEC sewage treatment plant: 1 mg/l
## 2-(2-butoxyethoxy)ethanol (112-34-5)

<table>
<thead>
<tr>
<th>Acute - local effects, inhalation</th>
<th>101,2 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term - systemic effects, dermal</td>
<td>83 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Long-term - systemic effects, inhalation</td>
<td>67,5 mg/m³</td>
</tr>
<tr>
<td>Long-term - local effects, inhalation</td>
<td>67,5 mg/m³</td>
</tr>
</tbody>
</table>

**DNEL/DMEL (General population)**

<table>
<thead>
<tr>
<th>Acute - local effects, inhalation</th>
<th>60,7 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term - systemic effects, oral</td>
<td>5 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Long-term - systemic effects, inhalation</td>
<td>40,5 mg/m³</td>
</tr>
<tr>
<td>Long-term - systemic effects, dermal</td>
<td>50 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Long-term - local effects, inhalation</td>
<td>40,5 mg/m³</td>
</tr>
</tbody>
</table>

**PNEC (Water)**

<table>
<thead>
<tr>
<th>PNEC aqua (freshwater)</th>
<th>1,1 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC aqua (marine water)</td>
<td>0,11 mg/l</td>
</tr>
<tr>
<td>PNEC aqua (intermittent, freshwater)</td>
<td>11 mg/l</td>
</tr>
</tbody>
</table>

**PNEC (Sediment)**

<table>
<thead>
<tr>
<th>PNEC sediment (freshwater)</th>
<th>4,4 mg/kg dwt</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC sediment (marine water)</td>
<td>0,44 mg/kg dwt</td>
</tr>
</tbody>
</table>

**PNEC (Soil)**

<table>
<thead>
<tr>
<th>PNEC soil</th>
<th>0,32 mg/kg dwt</th>
</tr>
</thead>
</table>

**PNEC (Oral)**

| PNEC oral (secondary poisoning) | 56 mg/kg food |

**PNEC (STP)**

| PNEC sewage treatment plant | 200 mg/l |

**Distillates (petroleum), solvent-dewaxed heavy paraffinic, Baseoil - unspecified (64742-65-0)**

**PNEC (Oral)**

| PNEC oral (secondary poisoning) | 9,33 mg/kg food |

## Cyclohexanone (108-94-1)

**DNEL/DMEL (Workers)**

<table>
<thead>
<tr>
<th>Acute - systemic effects, dermal</th>
<th>100 mg/kg bodyweight/day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute - local effects, inhalation</td>
<td>100 mg/m³</td>
</tr>
<tr>
<td>Long-term - systemic effects, dermal</td>
<td>10 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Long-term - systemic effects, inhalation</td>
<td>100 mg/m³</td>
</tr>
</tbody>
</table>

**DNEL/DMEL (General population)**

<table>
<thead>
<tr>
<th>Acute - systemic effects, dermal</th>
<th>30 mg/kg bodyweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute - systemic effects, inhalation</td>
<td>50 mg/m³</td>
</tr>
<tr>
<td>Acute - systemic effects, oral</td>
<td>10 mg/kg bodyweight</td>
</tr>
<tr>
<td>Acute - local effects, inhalation</td>
<td>50 mg/m³</td>
</tr>
<tr>
<td>Long-term - systemic effects,oral</td>
<td>5 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Long-term - systemic effects, inhalation</td>
<td>20 mg/m³</td>
</tr>
<tr>
<td>Long-term - systemic effects, dermal</td>
<td>20 mg/kg bodyweight/day</td>
</tr>
</tbody>
</table>

**PNEC (Water)**

<table>
<thead>
<tr>
<th>PNEC aqua (freshwater)</th>
<th>0,033 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC aqua (marine water)</td>
<td>0,003 mg/l</td>
</tr>
<tr>
<td>PNEC aqua (intermittent, freshwater)</td>
<td>0,329 mg/l</td>
</tr>
</tbody>
</table>

**PNEC (Sediment)**

<table>
<thead>
<tr>
<th>PNEC sediment (freshwater)</th>
<th>0,095 mg/kg dwt</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC sediment (marine water)</td>
<td>0,009 mg/kg dwt</td>
</tr>
<tr>
<td>PNEC soil</td>
<td>0,014 mg/kg dwt</td>
</tr>
</tbody>
</table>

**PNEC (STP)**

| PNEC sewage treatment plant | 10 mg/l |

## 4-hydroxy-4-methylpentan-2-one (123-42-2)

**DNEL/DMEL (Workers)**

<table>
<thead>
<tr>
<th>Acute - local effects, inhalation</th>
<th>240 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term - systemic effects, dermal</td>
<td>9,4 mg/kg bodyweight/day</td>
</tr>
<tr>
<td>Long-term - systemic effects, inhalation</td>
<td>66,4 mg/m³</td>
</tr>
<tr>
<td>Long-term - local effects, inhalation</td>
<td>66,4 mg/m³</td>
</tr>
</tbody>
</table>
Hydraulic Valve Lifter Concentrate
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

4-hydroxy-4-methylpentan-2-one (123-42-2)
DNEL/DMEL (General population)
Acute - local effects, inhalation 120 mg/m³
Long-term - systemic effects, oral 3,4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 11,8 mg/m³
Long-term - systemic effects, dermal 3,4 mg/kg bodyweight/day
Long-term - local effects, inhalation 11,8 mg/m³
PNEC (Water)
PNEC aqua (freshwater) 2 mg/l
PNEC aqua (marine water) 0,2 mg/l
PNEC aqua (intermittent, freshwater) 1 mg/l
PNEC (Sediment)
PNEC sediment (freshwater) 9,06 mg/kg dwt
PNEC sediment (marine water) 0,91 mg/kg dwt
PNEC (Soil)
PNEC soil 0,63 mg/kg dwt
PNEC (STP)
PNEC sewage treatment plant 10 mg/l

N-phenylbenzenamine, reaction products with 2,4,4-trimethylpentene (68411-46-1)
DNEL/DMEL (Workers)
Long-term - systemic effects, dermal 0,08 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 0,6 mg/m³
DNEL/DMEL (General population)
Long-term - systemic effects, oral 0,04 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 0,14 mg/m³
Long-term - systemic effects, dermal 0,04 mg/kg bodyweight/day
PNEC (Water)
PNEC aqua (freshwater) 0,034 mg/l
PNEC aqua (marine water) 0,003 mg/l
PNEC aqua (intermittent, freshwater) 0,51 mg/l
PNEC (Sediment)
PNEC sediment (freshwater) 0,446 mg/kg dwt
PNEC sediment (marine water) 0,045 mg/kg dwt
PNEC (Soil)
PNEC soil 2,59 mg/kg dwt
PNEC (STP)
PNEC sewage treatment plant 10 mg/l

8.2. Exposure controls
Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Does not require any specific or particular technical measures.

Personal protective equipment : Gloves. Safety glasses.

Hand protection : Neoprene. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer.
Eye protection : Protective goggles.
Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
Other information : Breakthrough time : >30’. Thickness of the glove material >0,1 mm.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state : Liquid
Appearance : Viscous.
### Additional Information

- **Colour**: Brown.
- **Odour**: Oily.
- **Odour threshold**: No data available.
- **pH**: No data available.
- **Relative evaporation rate (butylacetate=1)**: No data available.
- **Refractive index**: 1.492.
- **Melting point**: No data available.
- **Freezing point**: No data available.
- **Boiling point**: No data available.
- **Flash point**: 63 °C.
- **Auto-ignition temperature**: No data available.
- **Decomposition temperature**: No data available.
- **Flammability (solid, gas)**: No data available.
- **Vapour pressure**: No data available.
- **Relative vapour density at 20 °C**: No data available.
- **Relative density**: No data available.
- **Density @20°C**: 904 kg/m³.
- **Solubility**: Insoluble in water.
- **Log Pow**: No data available.
- **Log Kow**: No data available.
- **Viscosity, kinematic @40°C**: 18.91 mm²/s.
- **Viscosity, dynamic @40°C**: No data available.
- **Viscosity**: 3.55 mm²/s @100°C.
- **Viscosity Index**: 37.
- **Explosive properties**:
- **Oxidising properties**: No data available.
- **Explosive limits**: No data available.
- **VOC content**: 3 %.
- **Other properties**: Dimethylsulfoxide (DMSO) <3%.
- **Additional information**: The physical and chemical data in this section are typical values for this product and are not intended as product specifications.

#### SECTION 10: Stability and reactivity

**10.1. Reactivity**

No additional information available.

**10.2. Chemical stability**

Combustible liquid. Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No additional information available.

**10.4. Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from strong acids and strong oxidizers.

**10.5. Incompatible materials**

No additional information available.

**10.6. Hazardous decomposition products**


#### SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

- **Acute toxicity**: Not classified.
Hydraulic Valve Lifter Concentrate
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

**4-methylpentan-2-ol (108-11-2)**
- LD50 oral rat: 2590 mg/kg bodyweight
- LD50 dermal rabbit: 2870 mg/kg bodyweight
- LC50 inhalation rat (mg/l): > 16 mg/l @4h Wistar
- ATE CLP (oral): 2590 mg/kg bodyweight
- ATE CLP (dermal): 2870 mg/kg bodyweight

**2-(2-butoxyethoxy)ethanol (112-34-5)**
- LD50 oral rat: 7291 mg/kg bodyweight COBS, CD, BR
- LD50 dermal rabbit: 2764 mg/kg bodyweight New Zealand White
- LC50 inhalation rat (ppm): > 29 ppm @2h
- ATE CLP (oral): 7291 mg/kg bodyweight
- ATE CLP (dermal): 2764 mg/kg bodyweight

**Distillates (petroleum), solvent-dewaxed heavy paraffinic, Baseoil - unspecified (64742-65-0)**
- LD50 oral rat: > 5000 mg/kg bodyweight Sprague-Dawley
- LD50 dermal rabbit: > 2000 mg/kg bodyweight New Zealand White
- LC50 inhalation rat (mg/l): > 5,53 mg/l @4h Sprague-Dawley

**Cyclohexanone (108-94-1)**
- LD50 oral rat: 1890 mg/kg bodyweight
- LD50 dermal rabbit: 1100 mg/kg bodyweight
- LC50 inhalation rat (mg/l): 11 mg/l @4h
- ATE CLP (oral): 1890 mg/kg bodyweight
- ATE CLP (dermal): 1100 mg/kg bodyweight
- ATE CLP (gases): 4500 ppmv @4h
- ATE CLP (vapours): 11 mg/l @4h
- ATE CLP (dust,mist): 1,5 mg/l @4h

**C16-18-(even numbered, saturated and unsatd.)-alkylamines (Oleylamine) (1213789-63-9 (112-90-3))**
- LD50 oral rat: 1689 mg/kg bodyweight Sprague-Dawley
- ATE CLP (oral): 1689 mg/kg bodyweight

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
STOT-single exposure: Not classified
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

**4-methylpentan-2-ol (108-11-2)**
- LC50 fish 1: > 92,4 mg/l @96h Pimephales promelas
- EC50 Daphnia 1: 48h 337 mg/l Daphnia magna
- EC50 other aquatic organisms 1: 96h 334 mg/l Pseudokirchneriella subcapitata
- NOEC (acute): 48h 288 mg/l Daphnia magna

**2-(2-butoxyethoxy)ethanol (112-34-5)**
- LC50 fish 1: 96h 1300 mg/l Lepomis macrochirus
- EC50 Daphnia 1: 24h 2850 mg/l Daphnia magna
- EC50 other aquatic organisms 1: 72h 1101 mg/l Pseudokirchneriella subcapitata

**Distillates (petroleum), solvent-dewaxed heavy paraffinic, Baseoil - unspecified (64742-65-0)**
- LC50 fish 1: > 100 mg/l @96h Pimephales promelas
- EC50 Daphnia 1: > 10000 mg/l @48h Daphnia magna
- EC50 other aquatic organisms 1: <= 100 mg/l @72h Pseudokirchneriella subcapitata
Hydraulic Valve Lifter Concentrate
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Cyclohexanone (108-94-1)
| LC50 fish 1 | 96h 527 (≤ 732) mg/l Pimephales promelas |
| EC50 Daphnia 1 | 24h 800 mg/l Daphnia magna |
| EC50 other aquatic organisms 1 | 72h 32,9 mg/l Chlamydomonas reinhardtii |

C16-18-(even numbered, saturated and unsatd.)-alkylamines (Oleylamine) (1213789-63-9 (112-90-3))
| LC50 fish 1 | 96h 0,06 mg/l Pimephales promelas |
| EC50 Daphnia 1 | 48h 0,98 mg/l Daphnia magna |
| EC50 other aquatic organisms 1 | 72h 0,46 mg/l Desmodesmus subspicatus |
| EC50 other aquatic organisms 2 | 96h 0,04 mg/l Pseudokirchnerella subcapitata |

12.2. Persistence and degradability
4-methylpentan-2-ol (108-11-2)
Persistence and degradability: Readily biodegradable in water. easily degradable in the soil.

Cyclohexanone (108-94-1)
Persistence and degradability: Readily biodegradable.

12.3. Bioaccumulative potential
2-(2-butoxyethoxy)ethanol (112-34-5)
Log Pow 1

Cyclohexanone (108-94-1)
Bioaccumulative potential: Bioaccumulation unlikely.

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Remove to an authorized waste treatment plant. Avoid release to the environment.
European List of Waste (LoW) code: 12 01 12* - spent waxes and fats
15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
Not regulated for transport

14.2. UN proper shipping name
Not applicable

14.3. Transport hazard class(es)
Not applicable

14.4. Packing group
Not applicable

14.5. Environmental hazards
Other information: No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport
No additional information available

14.6.2. Transport by sea
No additional information available
14.6.3. Air transport
No additional information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
VOC content : 3 %

15.1.2. National regulations
Water hazard class (WGK) : 1 - low hazard to waters

15.2. Chemical safety assessment
No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)  Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)  Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)  Acute toxicity (oral), Category 4
Aquatic Acute 1  Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1  Hazardous to the aquatic environment — Chronic Hazard, Category 1
Asp. Tox. 1  Aspiration hazard, Category 1
Eye Dam. 1  Serious eye damage/eye irritation, Category 1
Eye Irrit. 2  Serious eye damage/eye irritation, Category 2
Flam. Liq. 3  Flammable liquids, Category 3
Skin Corr. 1B  Skin corrosion/irritation, Category 1B
Skin Irrit. 2  Skin corrosion/irritation, Category 2
STOT RE 2  Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3  Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226  Flammable liquid and vapour.
H302  Harmful if swallowed.
H304  May be fatal if swallowed and enters airways.
H312  Harmful in contact with skin.
H314  Causes severe skin burns and eye damage.
H315  Causes skin irritation.
H318  Causes serious eye damage.
H319  Causes serious eye irritation.
H332  Harmful if inhaled.
H335  May cause respiratory irritation.
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.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.