

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 29 Sept 2023

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## Lorol Duftöl Fantastic

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

#### 1.1. Product identifier

Trade name/designation:

Lorol Duftöl Fantastic

UFI:

4HW7-PF12-HJ7G-7QY5

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

No data available

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Otto Oehme GmbH

FEA

Industriestr. 20

90584 Allersberg

Germany

Telephone: 09176/98050

Telefax: 09176/980555

E-mail: Info@Oehme-Lorito.de

Website: www.Oehme-Lorito.de

#### 1.4. Emergency telephone number

No data available

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	

#### 2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

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### Hazard components for labelling:

alpha HEXYLZIMTALDEHYD; 4-tert-butylcyclohexyl acetate; linalool; 1,2-benzisothiazol-3(2H)-one

#### Hazard statements for health hazards

H319 Causes serious eye irritation.

#### Supplemental hazard information

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, alpha HEXYLZIMTALDEHYD, 3,7-Dimethyl octa-1,6-diene-3-ol, 4-tert-butylcyclohexyl acetate, citronellol, geraniol, Benzylsalicylat. May produce an allergic reaction.

#### Precautionary statements Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

#### Precautionary statements Response

P337 + P313 If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5 REACH No.: 01-2119457610-43-XXXX	<b>ethanol</b> Eye Irrit. 2 (H319), Flam. Liq. 2 (H225) Danger	2 - < 5 weight-%
CAS No.: 112-34-5 EC No.: 203-961-6 Index No.: 603-096-00-8 REACH No.: 01-2119475104-44-XXXX	<b>2-(2-butoxyethoxy)ethanol</b> Eye Irrit. 2 (H319) Warning	1 - ≤ 3 weight-%
CAS No.: 69011-36-5	<b>Isotridecanol,ethoxylated</b> Acute Tox. 4 (H302), Eye Dam. 1 (H318) Danger	1 - ≤ 2.7 weight-%
CAS No.: 101-86-0 EC No.: 202-983-3 REACH No.: 01-2119533092-50-XXXX	<b>alpha HEXYLZIMTALDEHYD</b> Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411), Skin Sens. 1 (H317) Warning	0 - < 0.5 weight-%
CAS No.: 32210-23-4 EC No.: 250-954-9 REACH No.: 01-2119976286-24	<b>4-tert-butylcyclohexyl acetate</b> Skin Sens. 1 (H317) Warning	0 - < 0.5 weight-%
CAS No.: 78-70-6 EC No.: 201-134-4 REACH No.: 01-2119474016-42-XXXX	<b>linalool</b> Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Warning	0 - < 0.3 weight-%
CAS No.: 118-58-1 EC No.: 204-262-9 REACH No.: 01-2119969442-31	<b>benzyl salicylate</b> Aquatic Chronic 3 (H412), Eye Irrit. 2 (H319), Skin Sens. 1B (H317) Warning	0 - ≤ 0.1 weight-%
CAS No.: 78-93-3 EC No.: 201-159-0 Index No.: 606-002-00-3 REACH No.: 01-2119457290-43-XXXX	<b>butanone</b> Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066	0 - ≤ 0.05 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 2634-33-5 EC No.: 220-120-9 Index No.: 613-088-00-6 REACH No.: 01-2120761540-60	<b>1,2-benzisothiazol-3(2H)-one</b> Acute Tox. 2 (H330), Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411), Eye Dam. 1 (H318), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Danger M-factor (acute): 1 M-factor (chronic): 1 <b>Specific concentration limit (SCL)</b> Skin Sens. 1; H317: C ≥ 0.05%	0 - < 0.01 weight-%

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact:

If skin irritation or rash occurs: Get medical advice/attention. After contact with skin, wash immediately with plenty of water and soap.

#### After eye contact:

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.

#### Following ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell. Let 1 glass of water be drunken in little sips (dilution effect).

#### Self-protection of the first aider:

Use personal protection equipment.

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

Serious eye damage/eye irritation

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Adjust to the environment

#### Unsuitable extinguishing media:

There are no restrictions on extinguishing agents for this mixture

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products:

In case of fire: Gases/vapours, toxic

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

**Personal precautions:**

Remove persons to safety. Do not inhale vapors / aerosols.

**Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection.

##### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

**For containment:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Wear personal protection equipment (refer to section 8). Avoid: Skin contact Eye contact

**Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions:**

Keep container tightly closed in a cool, well-ventilated place.

**Storage class (TRGS 510, Germany):** 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

#### 7.3. Specific end use(s)

No data available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
HR	<b>ethanol</b> CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m <sup>3</sup> )
HR	<b>2-(2-butoxyethoxy)ethanol</b> CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IOELV (EU)	<b>2-(2-butoxyethoxy)ethanol</b> CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )
HR from 12 Oct 2018	<b>1,1'-Oxydibenzene</b> CAS No.: 101-84-8 EC No.: 202-981-2	① 1 ppm (7 mg/m <sup>3</sup> ) ② 2 ppm (14 mg/m <sup>3</sup> )
IOELV (EU) from 21 Feb 2017	<b>1,1'-Oxydibenzene</b> CAS No.: 101-84-8 EC No.: 202-981-2	① 1 ppm (7 mg/m <sup>3</sup> ) ② 2 ppm (14 mg/m <sup>3</sup> )
HR	<b>butanone</b> CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m <sup>3</sup> ) ② 300 ppm (900 mg/m <sup>3</sup> )
IOELV (EU)	<b>butanone</b> CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m <sup>3</sup> ) ② 300 ppm (900 mg/m <sup>3</sup> )

### 8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
BIO (HR)	<b>butanone</b> CAS No.: 78-93-3 EC No.: 201-159-0	2.6 mg/g kreatinin	① etil-metil-ke-ton ② urin ③ kraj izloženosti, odnosno kraj smjene

### 8.1.3. DNEL-/PNEC-values

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Eye glasses with side protection EN 166

##### Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

#### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** Liquid

**Colour:** red

**Odour:** scented

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### Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	7 - 8	
Melting point	No data available	
Freezing point	No data available	
Initial boiling point and boiling range	No data available	
Flash point	> 60 °C	
Evaporation rate	No data available	
Auto-ignition temperature	No data available	
Upper/lower flammability or explosive limits	> 1.3 - ≤ 15	② Ethanol
Vapour pressure	No data available	
Vapour density	No data available	
Density	No data available	
Relative density	1	
Bulk density	not applicable	
Water solubility	miscible	
Dynamic viscosity	No data available	
Kinematic viscosity	No data available	

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Vapors may form an explosive mixture with air.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

Avoid high temperatures or direct sunlight.

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>1,1'-Oxydibenzene</b> CAS No.: 101-84-8 EC No.: 202-981-2
<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
<b>ethanol</b> CAS No.: 64-17-5 EC No.: 200-578-6
<b>LD<sub>50</sub> oral:</b> 10,470 mg/kg (Ratte)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Kaninchen)
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 51 mg/L 4 h (Ratte)
<b>2-(2-butoxyethoxy)ethanol</b> CAS No.: 112-34-5 EC No.: 203-961-6
<b>LD<sub>50</sub> oral:</b> 2,410 mg/kg (Mouse)
<b>LD<sub>50</sub> dermal:</b> 2,764 mg/kg (Rabbit)

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<b>Isotridecanol,ethoxylated</b> CAS No.: 69011-36-5
<b>LD<sub>50</sub> oral:</b> 300 - 2,000 mg/kg (Ratte)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Ratte)
<b>4-tert-butylcyclohexyl acetate</b> CAS No.: 32210-23-4 EC No.: 250-954-9
<b>LD<sub>50</sub> oral:</b> 3,770 mg/kg (Ratte) OECD 401
<b>LD<sub>50</sub> dermal:</b> 4,680 mg/kg (Kaninchen)
<b>linalool</b> CAS No.: 78-70-6 EC No.: 201-134-4
<b>LD<sub>50</sub> oral:</b> 2,790 mg/kg (rat)
<b>LD<sub>50</sub> dermal:</b> 5,610 mg/kg (rabbit)
<b>geraniol</b> CAS No.: 106-24-1 EC No.: 203-377-1
<b>LD<sub>50</sub> oral:</b> 3,600 mg/kg (rat)
<b>LD<sub>50</sub> dermal:</b> >5,000 mg/kg (rabbit)
<b>citronellol</b> CAS No.: 106-22-9 EC No.: 203-375-0
<b>LD<sub>50</sub> oral:</b> 3,450 mg/kg (Ratte)
<b>LD<sub>50</sub> dermal:</b> 2,650 mg/kg (Kaninchen)

### Acute oral toxicity:

Based on available data, the classification criteria are not met.

### Acute dermal toxicity:

Based on available data, the classification criteria are not met.

### Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

### Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

### Serious eye damage/irritation:

Causes serious eye irritation.

### Respiratory or skin sensitisation:

Contains alpha HEXYLZIMTALDEHYD, 4-tert-butylcyclohexyl acetate, linalool, citronellol, geraniol. May produce an allergic reaction.

### Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

### Carcinogenicity:

Based on available data, the classification criteria are not met.

### Reproductive toxicity:

Based on available data, the classification criteria are not met.

### STOT-single exposure:

Based on available data, the classification criteria are not met.

### STOT-repeated exposure:

Based on available data, the classification criteria are not met.

### Aspiration hazard:

Based on available data, the classification criteria are not met.

### Additional information:

No data available

### 11.2. Information on other hazards

No data available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>1,1'-Oxydibenzene</b> CAS No.: 101-84-8 EC No.: 202-981-2
<b>LC<sub>50</sub></b> : 6 mg/L 2 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> ))
<b>LC<sub>50</sub></b> : 4.2 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> ))
<b>EC<sub>50</sub></b> : 0.304 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> )) the Notice On the Test Method Concerning New Chemical Substances (Nov 21, 2003, No. 1121002, Pharmaceutical and Food Safety Bureau, MHLW, No.2, Manufacturing Industries Bureau, METI, No. 031121002, Environ Policy Bureau, MOE) -- Equivalent to OECD 201
<b>EC<sub>50</sub></b> : 1.96 mg/L 2 d (crustaceans, <i>Daphnia magna</i> ) the Notice On the Test Method Concerning New Chemical Substances (Nov 21, 2003, No. 1121002, Pharmaceutical and Food Safety Bureau, MHLW, No.2, Manufacturing Industries Bureau, METI, No. 031121002, Environ Policy Bureau, MOE) -- Equivalent to OECD 202
<b>NOEC</b> : 0.188 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> )) the Notice On the Test Method Concerning New Chemical Substances (Nov 21, 2003, No. 1121002, Pharmaceutical and Food Safety Bureau, MHLW, No.2, Manufacturing Industries Bureau, METI, No. 031121002, Environ Policy Bureau, MOE) -- Equivalent to OECD 201
<b>NOEC</b> : 3.2 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> ))
<b>NOEC</b> : 0.76 mg/L 1 d (crustaceans, <i>Daphnia magna</i> ) the Notice On the Test Method Concerning New Chemical Substances (Nov 21, 2003, No. 1121002, Pharmaceutical and Food Safety Bureau, MHLW, No.2, Manufacturing Industries Bureau, METI, No. 031121002, Environ Policy Bureau, MOE) -- Equivalent to OECD 202
<b>NOEC</b> : 0.76 mg/L 2 d (crustaceans, <i>Daphnia magna</i> ) the Notice On the Test Method Concerning New Chemical Substances (Nov 21, 2003, No. 1121002, Pharmaceutical and Food Safety Bureau, MHLW, No.2, Manufacturing Industries Bureau, METI, No. 031121002, Environ Policy Bureau, MOE) -- Equivalent to OECD 202
<b>butanone</b> CAS No.: 78-93-3 EC No.: 201-159-0
<b>LC<sub>50</sub></b> : 2,993 mg/L 4 d (fish, <i>Pimephales promelas</i> ) OECD Prüfrichtlinie 203
<b>EC<sub>50</sub></b> : 308 mg/L 2 d (crustaceans, <i>Daphnia magna</i> ) OECD-Prüfrichtlinie 202
<b>2-methyl-2H-isothiazol-3-one</b> CAS No.: 2682-20-4 EC No.: 220-239-6
<b>EC<sub>50</sub></b> : 8.4 mg/L 3 d ( <i>Pseudokirchneriella subcapitata</i> ) OECD 201
<b>NOEC</b> : 0.92 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> ) OECD 201
<b>ethanol</b> CAS No.: 64-17-5 EC No.: 200-578-6
<b>LC<sub>50</sub></b> : 5,012 mg/L 2 d (Algae/water plant, <i>Ceriodaphnia dubia</i> (Wasserfloh))
<b>EC<sub>50</sub></b> : 275 mg/L 3 d (Algae/water plant, <i>Chlorella vulgaris</i> ) OECD- Prüfrichtlinie 201
<b>2-(2-butoxyethoxy)ethanol</b> CAS No.: 112-34-5 EC No.: 203-961-6
<b>LC<sub>50</sub></b> : 1,300 mg/L 4 d (Sonnenbarsch) OECD 203
<b>EC<sub>50</sub></b> : >100 mg/L 2 d ( <i>Daphnia magna</i> )
<b>ErC<sub>50</sub></b> : 1,101 mg/L 3 d (Algae/water plant)
<b>Isotridecanol,ethoxylated</b> CAS No.: 69011-36-5
<b>LC<sub>50</sub></b> : >1 - 10 mg/L 4 d (fish, <i>Leuciscus idus</i> )
<b>EC<sub>50</sub></b> : >1 - 10 mg/L 2 d (crustaceans)
<b>EC<sub>50</sub></b> : >1 - 10 mg/L 3 d (Algae/water plant)
<b>NOEC</b> : >1 mg/L 21 d (crustaceans)
<b>LC<sub>50</sub></b> : >1 - 10 mg/L (fish, <i>Daphnia magna</i> )
<b>LC<sub>50</sub></b> : >1 - 10 mg/L (fish)
<b>EC<sub>50</sub></b> : >1 - 10 mg/L 2 d (fish, <i>Daphnia magna</i> )
<b>NOEC</b> : >1 mg/L (Algae/water plant, <i>Daphnia magna</i> )
<b>4-tert-butylcyclohexyl acetate</b> CAS No.: 32210-23-4 EC No.: 250-954-9
<b>LC<sub>50</sub></b> : 8.6 mg/L 4 d (fish, <i>Cyprinus carpio</i> ) EU Method C.1 (Acute Toxicity for Fish)
<b>EC<sub>50</sub></b> : 5.3 mg/L 2 d (crustaceans, <i>Daphnia magna</i> )
<b>EC<sub>50</sub></b> : 22 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> )) EU Method C.3 (Algal Inhibition test)
<b>NOEC</b> : 6.8 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> )) EU Method C.3 (Algal Inhibition test)



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<b>linalool</b> CAS No.: 78-70-6 EC No.: 201-134-4
<b>LC<sub>50</sub></b> : 27.8 mg/L 2 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> )) OECD Guideline 203 (Fish, Acute Toxicity Test)
<b>LC<sub>50</sub></b> : 27.8 mg/L 3 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> )) OECD Guideline 203 (Fish, Acute Toxicity Test)
<b>LC<sub>50</sub></b> : 27.8 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> )) OECD Guideline 203 (Fish, Acute Toxicity Test)
<b>EC<sub>50</sub></b> : 88.3 mg/L 4 d (Algae/water plant, <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> )) DIN 38412 L 9
<b>EC<sub>50</sub></b> : 59 mg/L 2 d (crustaceans, <i>Daphnia magna</i> ) OECD Guideline 202 ( <i>Daphnia</i> sp. Acute Immobilisation Test)
<b>EC<sub>50</sub></b> : 59 mg/L 2 d ( <i>Daphnia</i> )
<b>NOEC</b> : <3.5 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> )) OECD Guideline 203 (Fish, Acute Toxicity Test)
<b>NOEC</b> : 25 mg/L 2 d (crustaceans, <i>Daphnia magna</i> ) OECD Guideline 202 ( <i>Daphnia</i> sp. Acute Immobilisation Test)
<b>ErC<sub>50</sub></b> : 156.7 mg/L 4 d (Algae/water plant)
<b>geraniol</b> CAS No.: 106-24-1 EC No.: 203-377-1
<b>LC<sub>50</sub></b> : 22 mg/L 4 d (fish, <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i> )) OECD Guideline 203 (Fish, Acute Toxicity Test)
<b>EC<sub>50</sub></b> : 13.1 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> )) OECD Guideline 201 (Alga, Growth Inhibition Test)
<b>EC<sub>50</sub></b> : 10.8 mg/L 2 d (crustaceans, <i>Daphnia magna</i> ) OECD Guideline 202 ( <i>Daphnia</i> sp. Acute Immobilisation Test)
<b>NOEC</b> : 1 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> )) OECD Guideline 201 (Alga, Growth Inhibition Test)
<b>NOEC</b> : 10 mg/L 4 d (fish, <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i> )) OECD Guideline 203 (Fish, Acute Toxicity Test)
<b>citronellol</b> CAS No.: 106-22-9 EC No.: 203-375-0
<b>LC<sub>50</sub></b> : 14.66 mg/L 4 d (fish, <i>Leuciscus idus</i> ) German standard DIN 38 412, part L15.
<b>EC<sub>50</sub></b> : 2.4 mg/L 3 d (Algae/water plant)
<b>EC<sub>50</sub></b> : 17.48 mg/L 2 d (crustaceans, <i>Daphnia magna</i> ) EU Directive 79/831/EEC, Annex V, part C.
<b>NOEC</b> : 3.1 mg/L 2 d (crustaceans, <i>Daphnia magna</i> ) EU Directive 79/831/EEC, Annex V, part C.
<b>NOEC</b> : 4.6 mg/L 4 d (fish, <i>Leuciscus idus</i> ) German standard DIN 38 412, part L15.

## 12.2. Persistence and degradability

<b>butanone</b> CAS No.: 78-93-3 EC No.: 201-159-0
<b>Biodegradation:</b> Yes, rapidly
<b>2-methyl-2H-isothiazol-3-one</b> CAS No.: 2682-20-4 EC No.: 220-239-6
<b>Biodegradation:</b> Yes, rapidly
<b>ethanol</b> CAS No.: 64-17-5 EC No.: 200-578-6
<b>Biodegradation:</b> Yes, rapidly
<b>4-tert-butylcyclohexyl acetate</b> CAS No.: 32210-23-4 EC No.: 250-954-9
<b>Biodegradation:</b> Yes, rapidly
<b>linalool</b> CAS No.: 78-70-6 EC No.: 201-134-4
<b>Biodegradation:</b> Yes, rapidly
<b>geraniol</b> CAS No.: 106-24-1 EC No.: 203-377-1
<b>Biodegradation:</b> Yes, rapidly

## 12.3. Bioaccumulative potential

<b>1,1'-Oxydibenzene</b> CAS No.: 101-84-8 EC No.: 202-981-2
<b>Log K<sub>ow</sub></b> : 4.21
<b>butanone</b> CAS No.: 78-93-3 EC No.: 201-159-0
<b>Log K<sub>ow</sub></b> : 0.3

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**2-methyl-2H-isothiazol-3-one** CAS No.: 2682-20-4 EC No.: 220-239-6

**Log K<sub>OW</sub>:** 117

**Bioconcentration factor (BCF):** 3.16

**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6

**Log K<sub>OW</sub>:** -0.35

**Bioconcentration factor (BCF):** 0.66

**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6

**Log K<sub>OW</sub>:** = 1

**4-tert-butylcyclohexyl acetate** CAS No.: 32210-23-4 EC No.: 250-954-9

**Log K<sub>OW</sub>:** 4.8

**linalool** CAS No.: 78-70-6 EC No.: 201-134-4

**Log K<sub>OW</sub>:** 2.9

**geraniol** CAS No.: 106-24-1 EC No.: 203-377-1

**Log K<sub>OW</sub>:** 2.6

**citronellol** CAS No.: 106-22-9 EC No.: 203-375-0

**Log K<sub>OW</sub>:** 3.55

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

**1,1'-Oxydibenzene** CAS No.: 101-84-8 EC No.: 202-981-2

**Results of PBT and vPvB assessment:** —

**butanone** CAS No.: 78-93-3 EC No.: 201-159-0

**Results of PBT and vPvB assessment:** —

**2-methyl-2H-isothiazol-3-one** CAS No.: 2682-20-4 EC No.: 220-239-6

**Results of PBT and vPvB assessment:** —

**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6

**Results of PBT and vPvB assessment:** —

**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6

**Results of PBT and vPvB assessment:** —

**Isotridecanol,ethoxylated** CAS No.: 69011-36-5

**Results of PBT and vPvB assessment:** —

**alpha HEXYLZIMTALDEHYD** CAS No.: 101-86-0 EC No.: 202-983-3

**Results of PBT and vPvB assessment:** —

**4-tert-butylcyclohexyl acetate** CAS No.: 32210-23-4 EC No.: 250-954-9

**Results of PBT and vPvB assessment:** —

**linalool** CAS No.: 78-70-6 EC No.: 201-134-4

**Results of PBT and vPvB assessment:** —

**geraniol** CAS No.: 106-24-1 EC No.: 203-377-1

**Results of PBT and vPvB assessment:** —

**citronellol** CAS No.: 106-22-9 EC No.: 203-375-0

**Results of PBT and vPvB assessment:** —

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

No data available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

07 06 01 *	aqueous washing liquids and mother liquors
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\*: Evidence for disposal must be provided.

##### Waste code packaging

##### Remark:

Plastic packaging

##### Waste treatment options

##### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

### SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.2. UN proper shipping name</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.3. Transport hazard class(es)</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.4. Packing group</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.5. Environmental hazards</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.6. Special precautions for user</b>			
not relevant	not relevant	not relevant	not relevant

#### 14.7. Maritime transport in bulk according to IMO instruments

No data available

### SECTION 15: Regulatory information

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

##### 15.1.1. EU legislation

##### Authorisations:

Labelling for contents according to regulation (EC) No. 648/2004

non-ionic surfactants <5%

Benzisothiazolinone, Methylisothiazolinone

perfumes, Hexyl Cinnamal, Linalool, Geraniol, Citronellol, Benzyl Salicylate, Limonene, Alpha-Isomethyl Ionone.

##### 15.1.2. National regulations

No data available

#### 15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

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### SECTION 16: Other information

#### 16.1. Indication of changes

No data available

#### 16.2. Abbreviations and acronyms

No data available

#### 16.3. Key literature references and sources for data

Substance name	Type	source of supply
<b>benzyl salicylate</b> CAS No.: 118-58-1 EC No.: 204-262-9	Classification of the substance or mixture	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>1,1'-Oxydibenzene</b> CAS No.: 101-84-8 EC No.: 202-981-2	LD <sub>50</sub> oral; LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>geraniol</b> CAS No.: 106-24-1 EC No.: 203-377-1	LD <sub>50</sub> oral; LD <sub>50</sub> dermal; LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>4-tert-butylcyclohexyl acetate</b> CAS No.: 32210-23-4 EC No.: 250-954-9	LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>linalool</b> CAS No.: 78-70-6 EC No.: 201-134-4	LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>citronellol</b> CAS No.: 106-22-9 EC No.: 203-375-0	LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>

#### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	

#### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

#### 16.6. Training advice

No data available

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### 16.7. Additional information

The information is based on our current level of knowledge and is used to describe the product with regard to the safety precautions to be taken. They do not represent a guarantee of the properties of the product described.

It is the responsibility of the recipient of our product to observe existing laws and regulations.