

SAFETY DATA SHEET

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

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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	ethanol 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	2-(2-butoxyethoxy)ethanol Eye Irrit. 2 (H319) Warning	1 - ≤ 3 weight-%
CAS No.: 69011-36-5	Isotridecanol,ethoxylated 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	alpha HEXYLZIMTALDEHYD 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	4-tert-butylcyclohexyl acetate 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	linalool 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	benzyl salicylate 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	butanone 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	1,2-benzisothiazol-3(2H)-one 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 Specific concentration limit (SCL) 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	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³)
HR	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m ³) ② 15 ppm (101.2 mg/m ³)

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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)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m ³) ② 15 ppm (101.2 mg/m ³)
HR from 12 Oct 2018	1,1'-Oxydibenzene CAS No.: 101-84-8 EC No.: 202-981-2	① 1 ppm (7 mg/m ³) ② 2 ppm (14 mg/m ³)
IOELV (EU) from 21 Feb 2017	1,1'-Oxydibenzene CAS No.: 101-84-8 EC No.: 202-981-2	① 1 ppm (7 mg/m ³) ② 2 ppm (14 mg/m ³)
HR	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³)
IOELV (EU)	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³)

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)	butanone 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

1,1'-Oxydibenzene CAS No.: 101-84-8 EC No.: 202-981-2
LD₅₀ oral: >5,000 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
LD₅₀ oral: 10,470 mg/kg (Ratte)
LD₅₀ dermal: >2,000 mg/kg (Kaninchen)
LC₅₀ Acute inhalation toxicity (vapour): 51 mg/L 4 h (Ratte)
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
LD₅₀ oral: 2,410 mg/kg (Mouse)
LD₅₀ dermal: 2,764 mg/kg (Rabbit)

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Isotridecanol,ethoxylated CAS No.: 69011-36-5
LD₅₀ oral: 300 - 2,000 mg/kg (Ratte)
LD₅₀ dermal: >2,000 mg/kg (Ratte)
4-tert-butylcyclohexyl acetate CAS No.: 32210-23-4 EC No.: 250-954-9
LD₅₀ oral: 3,770 mg/kg (Ratte) OECD 401
LD₅₀ dermal: 4,680 mg/kg (Kaninchen)
linalool CAS No.: 78-70-6 EC No.: 201-134-4
LD₅₀ oral: 2,790 mg/kg (rat)
LD₅₀ dermal: 5,610 mg/kg (rabbit)
geraniol CAS No.: 106-24-1 EC No.: 203-377-1
LD₅₀ oral: 3,600 mg/kg (rat)
LD₅₀ dermal: >5,000 mg/kg (rabbit)
citronellol CAS No.: 106-22-9 EC No.: 203-375-0
LD₅₀ oral: 3,450 mg/kg (Ratte)
LD₅₀ dermal: 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

1,1'-Oxydibenzene CAS No.: 101-84-8 EC No.: 202-981-2
LC₅₀ : 6 mg/L 2 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>))
LC₅₀ : 4.2 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>))
EC₅₀ : 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
EC₅₀ : 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
NOEC : 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
NOEC : 3.2 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>))
NOEC : 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
NOEC : 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
butanone CAS No.: 78-93-3 EC No.: 201-159-0
LC₅₀ : 2,993 mg/L 4 d (fish, <i>Pimephales promelas</i>) OECD Prüfrichtlinie 203
EC₅₀ : 308 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) OECD-Prüfrichtlinie 202
2-methyl-2H-isothiazol-3-one CAS No.: 2682-20-4 EC No.: 220-239-6
EC₅₀ : 8.4 mg/L 3 d (<i>Pseudokirchneriella subcapitata</i>) OECD 201
NOEC : 0.92 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) OECD 201
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
LC₅₀ : 5,012 mg/L 2 d (Algae/water plant, <i>Ceriodaphnia dubia</i> (Wasserfloh))
EC₅₀ : 275 mg/L 3 d (Algae/water plant, <i>Chlorella vulgaris</i>) OECD- Prüfrichtlinie 201
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
LC₅₀ : 1,300 mg/L 4 d (Sonnenbarsch) OECD 203
EC₅₀ : >100 mg/L 2 d (<i>Daphnia magna</i>)
ErC₅₀ : 1,101 mg/L 3 d (Algae/water plant)
Isotridecanol,ethoxylated CAS No.: 69011-36-5
LC₅₀ : >1 - 10 mg/L 4 d (fish, <i>Leuciscus idus</i>)
EC₅₀ : >1 - 10 mg/L 2 d (crustaceans)
EC₅₀ : >1 - 10 mg/L 3 d (Algae/water plant)
NOEC : >1 mg/L 21 d (crustaceans)
LC₅₀ : >1 - 10 mg/L (fish, <i>Daphnia magna</i>)
LC₅₀ : >1 - 10 mg/L (fish)
EC₅₀ : >1 - 10 mg/L 2 d (fish, <i>Daphnia magna</i>)
NOEC : >1 mg/L (Algae/water plant, <i>Daphnia magna</i>)
4-tert-butylcyclohexyl acetate CAS No.: 32210-23-4 EC No.: 250-954-9
LC₅₀ : 8.6 mg/L 4 d (fish, <i>Cyprinus carpio</i>) EU Method C.1 (Acute Toxicity for Fish)
EC₅₀ : 5.3 mg/L 2 d (crustaceans, <i>Daphnia magna</i>)
EC₅₀ : 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)
NOEC : 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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linalool CAS No.: 78-70-6 EC No.: 201-134-4
LC₅₀ : 27.8 mg/L 2 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)) OECD Guideline 203 (Fish, Acute Toxicity Test)
LC₅₀ : 27.8 mg/L 3 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)) OECD Guideline 203 (Fish, Acute Toxicity Test)
LC₅₀ : 27.8 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC₅₀ : 88.3 mg/L 4 d (Algae/water plant, <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i>)) DIN 38412 L 9
EC₅₀ : 59 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) OECD Guideline 202 (<i>Daphnia</i> sp. Acute Immobilisation Test)
EC₅₀ : 59 mg/L 2 d (<i>Daphnia</i>)
NOEC : <3.5 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)) OECD Guideline 203 (Fish, Acute Toxicity Test)
NOEC : 25 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) OECD Guideline 202 (<i>Daphnia</i> sp. Acute Immobilisation Test)
ErC₅₀ : 156.7 mg/L 4 d (Algae/water plant)
geraniol CAS No.: 106-24-1 EC No.: 203-377-1
LC₅₀ : 22 mg/L 4 d (fish, <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i>)) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC₅₀ : 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)
EC₅₀ : 10.8 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) OECD Guideline 202 (<i>Daphnia</i> sp. Acute Immobilisation Test)
NOEC : 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)
NOEC : 10 mg/L 4 d (fish, <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i>)) OECD Guideline 203 (Fish, Acute Toxicity Test)
citronellol CAS No.: 106-22-9 EC No.: 203-375-0
LC₅₀ : 14.66 mg/L 4 d (fish, <i>Leuciscus idus</i>) German standard DIN 38 412, part L15.
EC₅₀ : 2.4 mg/L 3 d (Algae/water plant)
EC₅₀ : 17.48 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) EU Directive 79/831/EEC, Annex V, part C.
NOEC : 3.1 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) EU Directive 79/831/EEC, Annex V, part C.
NOEC : 4.6 mg/L 4 d (fish, <i>Leuciscus idus</i>) German standard DIN 38 412, part L15.

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

1,1'-Oxydibenzene CAS No.: 101-84-8 EC No.: 202-981-2
Log K_{ow} : 4.21
butanone CAS No.: 78-93-3 EC No.: 201-159-0
Log K_{ow} : 0.3

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

Log K_{OW}: 117

Bioconcentration factor (BCF): 3.16

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

Log K_{OW}: -0.35

Bioconcentration factor (BCF): 0.66

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

Log K_{OW}: = 1

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

Log K_{OW}: 4.8

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

Log K_{OW}: 2.9

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

Log K_{OW}: 2.6

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

Log K_{OW}: 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)
14.1. UN number or ID number			
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.
14.2. UN proper shipping name			
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.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
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
benzyl salicylate CAS No.: 118-58-1 EC No.: 204-262-9	Classification of the substance or mixture	Source: European Chemicals Agency, http://echa.europa.eu/
1,1'-Oxydibenzene CAS No.: 101-84-8 EC No.: 202-981-2	LD ₅₀ oral; LC ₅₀ ; EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
geraniol CAS No.: 106-24-1 EC No.: 203-377-1	LD ₅₀ oral; LD ₅₀ dermal; LC ₅₀ ; EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
4-tert-butylcyclohexyl acetate CAS No.: 32210-23-4 EC No.: 250-954-9	LC ₅₀ ; EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
linalool CAS No.: 78-70-6 EC No.: 201-134-4	LC ₅₀ ; EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
citronellol CAS No.: 106-22-9 EC No.: 203-375-0	LC ₅₀ ; EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/

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.