

SAFETY DATA SHEET

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

Revision date: 16 Feb 2022

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

1.1. Product identifier

Trade name/designation:

Lorol Duftöl Lemon fresh

UFI:

98FQ-PEST-KJ8K-7H14

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

Use of the substance/mixture:

Duftöl

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

Giftinformationszentrum-Nord, Göttingen , 24h: +49 (0) 551 19240

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

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Signal word: Warning

Hazard statements for health hazards

H319 Causes serious eye irritation.

Supplemental hazard information

EUH208 Contains citral, 2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde, alpha HEXYLZIMTALDEHYD, (R)-p-mentha-1,8-diene, nerol, 1,2-benzisothiazol-3(2H)-one, 3,7-Dimethyl octa-1,6-diene-3-ol. 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 REACH No.: 01-2119457610-43-XXXX	ethanol Eye Irrit. 2 (H319), Flam. Liq. 2 (H225) Danger	1 - ≤ 10 weight-%
CAS No.: 112-34-5 EC No.: 203-961-6 REACH No.: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol Eye Irrit. 2 (H319) Warning	1 - ≤ 10 weight-%
CAS No.: 69011-36-5	Isotridecanol,ethoxylated Acute Tox. 4 (H302), Eye Dam. 1 (H318) Danger	1 - ≤ 5 weight-%
CAS No.: 5392-40-5 EC No.: 226-394-6 REACH No.: 01-2119462829-23-XXXX	citral Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Warning	0.1 - < 1 weight-%
CAS No.: 93893-89-1 EC No.: 299-682-2 REACH No.: 01-2120743785-44-XXXX	3-METHYL-5-PHENYL-2-PENTENNITRIL Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Skin Sens. 1A (H317) Warning	0.1 - < 1 weight-%
CAS No.: 68039-49-6 EC No.: 268-264-1 REACH No.: 01-2119982384-28-XXXX	2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Warning	0.1 - < 1 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. 1B (H317) Warning	0.1 - < 1 weight-%
CAS No.: 78-70-6 EC No.: 201-134-4 REACH No.: 01-2119474016-42-XXXX	3,7-Dimethyl octa-1,6-diene-3-ol Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Warning	0.1 - ≤ 1 weight-%
CAS No.: 5989-27-5 EC No.: 227-813-5	(R)-p-mentha-1,8-diene Aquatic Acute 1 (H400), Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1B (H317) Danger	0.1 - < 1 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 78-93-3 EC No.: 201-159-0 REACH No.: 01-2119457290-43-XXXX	butanone Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)  Danger EUH066	0 - ≤ 0.1 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:

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

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

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.

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.

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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 or smoke. Avoid contact with eyes and skin.

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
TRGS 900 (DE)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 200 ppm (380 mg/m ³) ② 800 ppm (1,520 mg/m ³)
TRGS 900 (DE)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67 mg/m ³) ② 15 ppm (100.5 mg/m ³) ⑤ (Aerosol und Dampf)
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)
TRGS 900 (DE)	(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	① 5 ppm (28 mg/m ³) ② 20 ppm (112 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)

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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)	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)
TRGS 900 (DE)	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 200 ppm (600 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)

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
TRGS 903 (DE)	butanone CAS No.: 78-93-3 EC No.: 201-159-0	2 mg/L	① 2-Butanon ② Urin ③ Expositionsende bzw. Schichtende

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: colourless

Odour: scented

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	≈ 5.6		
Melting point	not determined		
Freezing point	not determined		
Initial boiling point and boiling range	not determined		
Decomposition temperature	not determined		
Flash point	> 60 °C		
Evaporation rate	not determined		
Auto-ignition temperature	not determined		

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Parameter	Value	at °C	① Method ② Remark
Upper/lower flammability or explosive limits	<i>not determined</i>		
Vapour pressure	<i>not determined</i>		
Vapour density	<i>not determined</i>		
Density	<i>not determined</i>		
Relative density	1	20 °C	
Bulk density	<i>not determined</i>		
Water solubility	miscible		
Partition coefficient: n-octanol/water	<i>not determined</i>		
Dynamic viscosity	<i>not determined</i>		
Kinematic viscosity	<i>not determined</i>		

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

Substance name	Toxicological information
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)
Isotridecanol,ethoxylated CAS No.: 69011-36-5	LD₅₀ oral: 300 - 2,000 mg/kg (Ratte) LD₅₀ dermal: >2,000 mg/kg (Ratte)

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.

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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 citral, 2,4-Dimethyl-3-cyclohexen-1-carboxaldehyde, alpha HEXYLZIMTALDEHYD, (R)-p-mentha-1,8-diene, nerol, 1,2-benzisothiazol-3(2H)-one, 3,7-Dimethyl octa-1,6-diene-3-ol. 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

SECTION 12: Ecological information

12.1. Toxicity

Substance name	Toxicological information
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	LC ₅₀ : 5,012 mg/l 2 d (Algae/water plant, Ceriodaphnia dubia (Wasserfloh)) EC ₅₀ : 275 mg/l 3 d (Algae/water plant, Chlorella vulgaris) OECD- Prüfrichtlinie 201
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	LC ₅₀ : 1,300 mg/l 4 d (Sonnenbarsch) OECD 203 EC ₅₀ : >100 mg/l 2 d (Daphnia magna) ErC ₅₀ : 1,101 mg/l 3 d (Algae/water plant)
Isotridecanol,ethoxylated CAS No.: 69011-36-5	LC ₅₀ : >1 - 10 mg/l 4 d (fish) EC ₅₀ : >1 - 10 mg/l 2 d (crustaceans) EC ₅₀ : >1 - 10 mg/l 3 d (Algae/water plant) NOEC: >1 mg/l 21 d (crustaceans) LC ₅₀ : >1 - 10 mg/l (fish, Daphnia magna) LC ₅₀ : >1 - 10 mg/l (fish)

12.2. Persistence and degradability

Substance name	Biodegradation	Remark
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	Yes, rapidly	

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12.3. Bioaccumulative potential

Substance name	Log K _{ow}	Bioconcentration factor (BCF)
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	-0.35	0.66
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	= 1	

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	—
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	—
Isotridecanol, ethoxylated CAS No.: 69011-36-5	—

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

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

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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, Citral, Hexyl Cinnamal, Linalool, Limonene, Geraniol

15.1.2. National regulations

[DE] National regulations

Water hazard class

WGK:

2 - deutlich wassergefährdend

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

15.2. Chemical Safety Assessment

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

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

No data available

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. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.

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Hazard statements

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.
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16.6. Training advice

No data available

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.