

EUCALYPTUS & PATCHOULI FO-0131

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

1.1. Product identifier

Product form : Mixture
Product name : EUCALYPTUS & PATCHOULI FO-0131
UFI : FETV-C3UH-E00S-8MHE
Product code : FO-0131
Type of product : Perfumes, Fragrances
Product group : Finished Good

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Industrial/Professional use spec : For professional use only
Industrial
Use of the substance/mixture : Perfumes, Fragrances
Function or use category : Odour agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Fragrance Orchard

Neutrino,
Albert Road,
Essex CM7 3JQ
GB - United Kingdom

1.4. Emergency telephone

Emergency number : +44 1376 555185

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral) Category 4 H302
Skin corrosion/irritation Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Skin sensitization, Category 1 H317
Hazardous to the aquatic environment - Chronic Hazard Category 2 Full H411
text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008

[CLP] Hazard pictograms (CLP)



GHS07



GHS09

Signal word (CLP) : Warning

Hazardous ingredients	: Allyl cyclohexylpropionate; 2-Hydroxybenzoic acid, benzyl ester; L-Carvone; Citronellol Pure; Coumarin crystals; Eucalyptus oil; Geraniol; Hexyl cinnamic aldehyde; Linalool; Linalyl acetate; acetyl cedrene
Hazard statements (CLP)	: H302 - Harmful if swallowed. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing 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. P333+P313 - If skin irritation or rash occurs: 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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Benzyl benzoate	(CAS-No.) 120-51-4 (EC-No.) 204-402-9 (EC Index-No.) 607-085-00-9 (REACH-no) 01-2119976371-33	5.75 – 11.5	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol	(CAS-No.) 63500-71-0 (EC-No.) 405-040-6 (EC Index-No.) 603-101-00-3	2.76 – 9.357504	Eye Irrit. 2, H319
Dihydromyrcenol	(CAS-No.) 18479-58-8 (EC-No.) 242-362-4 (REACH-no) 01-2119457274-37	3.96 – 7.92	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Benzyl acetate	(CAS-No.) 140-11-4 (EC-No.) 205-399-7 (REACH-no) 01-2119638272-42	3.51 – 7.02	Aquatic Chronic 3, H412
Terpineol	(CAS-No.) 8000-41-7 (EC-No.) 232-268-1	3.33 – 6.66	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Coumarin crystals	(CAS-No.) 91-64-5 (EC-No.) 202-086-7 (REACH-no) 01-2119943756-26	2.94 – 5.88	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2 (REACH-no) 01-2119474016-42	2.883 – 5.766	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Citronellol Pure	(CAS-No.) 106-22-9 (EC-No.) 203-375-0 (REACH-no) 01-2119453995-23	2.88 – 5.76	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317

Freskomenthe	(CAS-No.) 14765-30-1 (EC-No.) 238-830-2	2.04 – 4.08	Skin Irrit. 2, H315
Linalyl acetate	(CAS-No.) 115-95-7 (EC-No.) 204-116-4 (REACH-no) 01-2119454789-19	2.04 – 4.08	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
L-Carvone	(CAS-No.) 6485-40-1 (EC-No.) 229-352-5 (EC Index-No.) 606-148-00-8	1.41 – 2.82	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317
Geraniol	(CAS-No.) 106-24-1 (EC-No.) 203-377-1 (REACH-no) 01-2119552430-49	1.14 – 2.28	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Allyl cyclohexylpropionate	(CAS-No.) 2705-87-5 (EC-No.) 220-292-5	0.96 – 1.92	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
acetyl cedrene	(CAS-No.) 32388-55-9 (EC-No.) 251-020-3 (REACH-no) 01-2119969651-28	0.96 – 1.92	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Hexyl cinnamic aldehyde	(CAS-No.) 101-86-0 (EC-No.) 202-983-3 (REACH-no) 01-2119533092-50	0.9 – 1.8	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Methyl ionone (mixture of isomers)	(CAS-No.) 1335-46-2 (EC-No.) 215-635-0	0.9 – 1.8	Eye Irrit. 2, H319 Aquatic Chronic 2, H411
2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	(CAS-No.) 28219-60-5 (EC-No.) 248-907-2	0.78 – 1.56	Eye Irrit. 2, H319 Aquatic Chronic 2, H411
2-Hydroxybenzoic acid, benzyl ester	(CAS-No.) 118-58-1 (EC-No.) 204-262-9 (REACH-no) 01-2119969442-31	0.69 – 1.38	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Eucalyptus oil	(CAS-No.) 8000-48-4 (EC-No.) 283-406-2;286-249-8;616-775-9 (REACH-no) 01-2119978250-37	0.69 – 1.38	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Amyl salicylate	(CAS-No.) 2050-08-0 (EC-No.) 218-080-2 (REACH-no) 01-2119969444-27	0.6 – 1.2	Acute Tox. 4 (Oral), H302 Aquatic Chronic 1, H410
Benzenepropanol, .beta.,.beta.-dimethyl-	(CAS-No.) 13351-61-6 (EC-No.) 236-400-9	0.0552 – 1.19232	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Hexyl salicylate	(CAS-No.) 6259-76-3 (EC-No.) 228-408-6	0.0552 – 1.104	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Dimetol	(CAS-No.) 13254-34-7 (EC-No.) 236-244-1	0.54 – 1.08	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Cedarwood oil, Texas	(CAS-No.) 68990-83-0 (EC-No.) 294-461-7;614-888-8	0.45 – 0.9	Asp. Tox. 1, H304 Aquatic Chronic 1, H410

d-Limonene	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7 (REACH-no) 01-2119493353-35	0.315 – 0.78	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HEXAMETHYLINDANOPYRAN	(CAS-No.) 1222-05-5 (EC-No.) 214-946-9 (EC Index-No.) 603-212-00-7 (REACH-no) 01-2119488227-29	0.345 – 0.69	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Isomenthone	(CAS-No.) 491-07-6 (EC-No.) 207-727-4	0.33 – 0.66	Skin Irrit. 2, H315 Skin Sens. 1, H317
Rose oxide	(CAS-No.) 16409-43-1 (EC-No.) 240-457-5	0.3 – 0.6	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361
Triplal (Vertocitral)	(CAS-No.) 68039-49-6 (EC-No.) 268-264-1	0.24 – 0.48	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Hydroxy	(CAS-No.) 107-75-5 (EC-No.) 203-518-7 (REACH-no) 01-2119973482-31	0.21 – 0.42	Eye Irrit. 2, H319 Skin Sens. 1B, H317
Helional	(CAS-No.) 1205-17-0 (EC-No.) 214-881-6 (REACH-no) 01-2120740119-58	0.18 – 0.36	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Geranyl acetate	(CAS-No.) 105-87-3 (EC-No.) 203-341-5 (REACH-no) 01-2119973480-35	0.06 – 0.12	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Liffarome	(CAS-No.) 67633-96-9 (EC-No.) 266-797-4	0.06 – 0.12	Skin Sens. 1B, H317

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures 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.
First-aid measures after ingestion	: Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

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

Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: 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	: Water spray. Dry powder. Foam. Carbon dioxide.
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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency

personnel Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning : Take up liquid spill into absorbent material.
up Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.
Storage temperature : 25 °C
Storage area : Store in a well-ventilated place. Store away from heat.
Special rules on packaging : Store in a closed container.
Packaging materials : Do not store in corrodable metal.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Benzyl acetate (140-11-4)	
Belgium - Occupational Exposure Limits	
Limit value (mg/m ³)	62 mg/m ³
Limit value (ppm)	10 ppm
Denmark - Occupational Exposure Limits	
Limit (long-term) (mg/m ³)	61 mg/m ³
Limit (long-term) (ppm)	10 ppm
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (ppm)	10 ppm
OEL (15 min ref) (ppm)	30 ppm (calculated)
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	5 mg/m ³
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	5 mg/m ³
Portugal - Occupational Exposure Limits	
OEL TWA (ppm)	10 ppm
OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	50 mg/m ³
OEL TWA (ppm)	8 ppm
OEL STEL (mg/m ³)	80 mg/m ³
OEL STEL (ppm)	13 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	62 mg/m ³
VLA-ED (ppm)	10 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (ppm)	10 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen

d-Limonene (5989-27-5)	
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	140 mg/m ³
HTP-arvo (8h) (ppm)	25 ppm
HTP-arvo (15 min)	280 mg/m ³
HTP-arvo (15 min) (ppm)	50 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	28 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Occupational exposure limit value (ppm)	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)

Chemical category	skin notation, Skin sensitization
Slovenia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	28 mg/m ³
OEL TWA (ppm)	5 ppm
OEL STEL (mg/m ³)	112 mg/m ³
OEL STEL (ppm)	20 ppm
OEL chemical category (SI)	Potential for cutaneous absorption
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	168 mg/m ³
VLA-ED (ppm)	30 ppm
OEL chemical category (ES)	Sensitizer, skin - potential for cutaneous absorption
Norway - Occupational Exposure Limits	
TWA (AN) (mg/m ³)	140 mg/m ³
TWA (AN) (ppm)	25 ppm
TWA (Kortidsverdi) (mg/m ³)	175 mg/m ³ (value calculated)
TWA (Kortidsverdi) (ppm)	37.5 ppm (value calculated)
OEL chemical category (NO)	Sensitizing substance
Switzerland - Occupational Exposure Limits	
MAK (mg/m ³)	40 mg/m ³
MAK (ppm)	7 ppm
KZGW (mg/m ³)	80 mg/m ³
KZGW (ppm)	14 ppm
OEL chemical category (CH)	Sensitizer

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: light yellow. amber.
Odor	: characteristic.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 85 °C (closed cup) ASTM D7094
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.012
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

EUCALYPTUS & PATCHOULI FO-0131	
ATE CLP (oral)	1047.047 mg/kg body weight

Allyl cyclohexylpropionate (2705-87-5)	
LD50 oral rat	585 mg/kg
LD50 oral	480 mg/kg body weight
LD50 dermal	1600 mg/kg body weight
LC50 inhalation rat (Vapors - mg/l/4h)	11 mg/l/4h

Amyl salicylate (2050-08-0)	
LD50 oral rat	4100 mg/kg
LD50 oral	2000 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg

Benzyl acetate (140-11-4)	
LD50 oral rat	2490 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Benzyl benzoate (120-51-4)	
LD50 oral rat	500 mg/kg
LD50 oral	1500 mg/kg body weight
LD50 dermal rabbit	4000 mg/kg
LD50 dermal	4000 mg/kg body weight

2-Hydroxybenzoic acid, benzyl ester (118-58-1)	
LD50 oral rat	2227 mg/kg
LD50 oral	2200 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg

L-Carvone (6485-40-1)	
LD50 oral rat	5400 mg/kg
LD50 dermal	3800 mg/kg body weight

Citronellol Pure (106-22-9)	
LD50 oral rat	3450 mg/kg

LD50 oral	3450 mg/kg body weight
LD50 dermal rabbit	2650 mg/kg
LD50 dermal	2650 mg/kg body weight

Coumarin crystals (91-64-5)

LD50 oral rat	> 5000 mg/kg
LD50 oral	500 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg

Dihydromyrcenol (18479-58-8)

LD50 oral rat	3600 mg/kg
LD50 oral	3600 mg/kg body weight
LD50 dermal rabbit	> 5 g/kg

Dimetol (13254-34-7)

LD50 oral rat	6800 mg/kg
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d-Limonene (5989-27-5)

LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5 g/kg

Eucalyptus oil (8000-48-4)

LD50 oral rat	2480 mg/kg
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Freskomenthe (14765-30-1)

LD50 oral rat	2400 mg/kg
LD50 oral	2400 mg/kg body weight

HEXAMETHYLINDANOPYRAN (1222-05-5)

LD50 oral rat	> 3250 mg/kg
LD50 dermal rabbit	> 3250 mg/kg

Geraniol (106-24-1)

LD50 oral rat	3600 mg/kg
LD50 oral	3600 mg/kg body weight
LD50 dermal rabbit	> 5 g/kg

Geranyl acetate (105-87-3)

LD50 oral rat	6330 mg/kg
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Hexyl cinnamic aldehyde (101-86-0)

LD50 oral rat	3100 mg/kg
LD50 oral	3100 mg/kg body weight
LD50 dermal rabbit	> 3000 mg/kg

LC50 inhalation rat (mg/l)	> 5 mg/l/4h
Hydroxy (107-75-5)	
LD50 oral rat	> 5 g/kg
Isomenthone (491-07-6)	
LD50 oral	2500 mg/kg body weight
Linalool (78-70-6)	
LD50 oral rat	2790 mg/kg
LD50 oral	2790 mg/kg body weight
LD50 dermal rabbit	2000 mg/kg
Linalyl acetate (115-95-7)	
LD50 oral rat	14550 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
Benzenepropanol, .beta.,.beta.-dimethyl- (13351-61-6)	
LD50 oral	1970 mg/kg body weight
Hexyl salicylate (6259-76-3)	
LD50 oral rat	> 5 g/kg
Methyl ionone (mixture of isomers) (1335-46-2)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
Rose oxide (16409-43-1)	
LD50 oral rat	4300 mg/kg
LD50 oral	4300 mg/kg body weight
Terpineol (8000-41-7)	
LD50 oral rat	2900 mg/kg
LD50 oral	4300 mg/kg body weight
LD50 dermal rabbit	> 3000 mg/kg
Triplal (Vertocitral) (68039-49-6)	
LD50 oral	3900 mg/kg body weight
acetyl cedrene (32388-55-9)	
LD50 oral	4500 mg/kg body weight

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Benzyl acetate (140-11-4)

IARC group	3 - Not classifiable
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Coumarin crystals (91-64-5)

IARC group	3 - Not classifiable
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d-Limonene (5989-27-5)

IARC group	3 - Not classifiable
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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

Ecology - general : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Allyl cyclohexylpropionate (2705-87-5)

LC50 fish 1	0.13 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
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Benzyl benzoate (120-51-4)

LC50 fish 1	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
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NOEC (chronic)	0.168 mg/l
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2-Hydroxybenzoic acid, benzyl ester (118-58-1)

LC50 fish 1	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
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L-Carvone (6485-40-1)

LC50 fish 1	6.1 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
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d-Limonene (5989-27-5)

LC50 fish 1	0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
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LC50 fish 2	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
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HEXAMETHYLINDANOPYRAN (1222-05-5)

LC50 fish 1	0.452 mg/l Wolf, 1996d-27682
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LC50 other aquatic organisms 1	> 0.14 mg/l REACH DOSSIER Pimephales promelas
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EC50 Daphnia 2	260 µg/l REACH Dossier
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EC50 other aquatic organisms 1	0.131 mg/l REACH Dossier
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Geraniol (106-24-1)	
LC50 fish 1	22 mg/l (Exposure time: 96 h - Species: Danio rerio [static])

Linalool (78-70-6)	
LC50 fish 1	27.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	20 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h algae (1)	88.3 mg/l (Species: Desmodesmus subspicatus)

Linalyl acetate (115-95-7)	
LC50 fish 1	11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through])

Methyl ionone (mixture of isomers) (1335-46-2)	
LC50 fish 1	2.3 mg/l (Exposure time: 96 h - Species: Danio rerio [static])

12.2. Persistence and degradability

Benzyl benzoate (120-51-4)	
Persistence and degradability	May cause long-term adverse effects in the environment.

Cedarwood oil, Texas (68990-83-0)	
Persistence and degradability	Not established.

Eucalyptus oil (8000-48-4)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Benzyl acetate (140-11-4)	
Partition coefficient n-octanol/water (Log Pow)	1.96

Benzyl benzoate (120-51-4)	
Partition coefficient n-octanol/water (Log Pow)	4
Bioaccumulative potential	Not established.

Cedarwood oil, Texas (68990-83-0)	
Bioaccumulative potential	Not established.

Eucalyptus oil (8000-48-4)	
Bioaccumulative potential	Not established.

Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.84 – 3.1 (at 25 °C)

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

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR)	: UN 3082
UN-No. (IMDG)	: UN 3082
UN-No. (IATA)	: UN 3082
UN-No. (ADN)	: UN 3082
UN-No. (RID)	: Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Proper Shipping Name (ADN)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (RID)	: Not regulated
Transport document description (ADR)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALLYL CYCLOHEXYLPROPIONATE), 9, III, (-)
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALLYL CYCLOHEXYLPROPIONATE), 9, III, MARINE POLLUTANT
Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (ALLYL CYCLOHEXYLPROPIONATE), 9, III
Transport document description (ADN)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALLYL CYCLOHEXYLPROPIONATE), 9, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 9
Hazard labels (ADR)	: 9



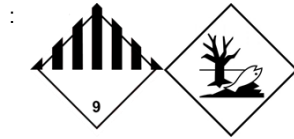
IMDG

Transport hazard class(es) (IMDG)	: 9
Hazard labels (IMDG)	: 9



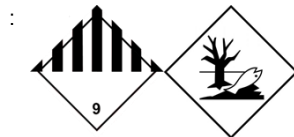
IATA

Transport hazard class(es) (IATA) : 9
Hazard labels (IATA) : 9



ADN

Transport hazard class(es) (ADN) : 9
Hazard labels (ADN) : 9



RID

Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR) : III
Packing group : III
(IMDG) Packing : III
group (IATA) Packing : III
group (ADN) Packing : Not regulated
group (RID)

14.5. Environmental hazards

Dangerous for the : Yes
environment Marine pollutant : Yes
Other information : No supplementary information available

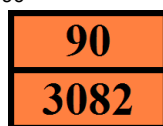
14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6
Special provision (ADR) : 274, 335, 375, 601
Limited quantities (ADR) : 5L
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1, TP29

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13

Hazard identification number (Kemler No.) : 90
Orange plates :



Tunnel restriction code (ADR) : -
EAC : +3Z

Transport by sea

Special provision (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provision (IATA)	: A97, A158, A197
ERG code (IATA)	: 9L

Inland waterway transport

Classification code (ADN)	: M6
Special provision (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

Rail transport

Not regulated

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**

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
Reference code	Applicable
3(a)	d-Limonene ; Eucalyptus oil
3(b)	EUCALYPTUS & PATCHOULI ; Allyl cyclohexylpropionate ; Amyl salicylate ; Benzyl benzoate ; 2-Hydroxybenzoic acid, benzyl ester ; L-Carvone ; Cedarwood oil, Texas ; Citronellol Pure ; Dihydromyrcenol ; Dimetol ; d-Limonene ; Eucalyptus oil ; Freskomenthe ; Geraniol ; Geranyl acetate ; Hexyl cinnamic aldehyde ; Helional ; Hydroxy ; Isomenthone ; Linalool ; Linalyl acetate ; Liffarome ; 2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol ; Benzenepropanol, .beta.,.beta.-dimethyl- ; Hexyl salicylate ; Methyl ionone (mixture of isomers) ; Rose oxide ; 2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol ; Terpineol ; Triplal (Vertocitral) ; acetyl cedrene
3(c)	EUCALYPTUS & PATCHOULI ; Allyl cyclohexylpropionate ; Amyl salicylate ; Benzyl acetate ; Benzyl benzoate ; 2-Hydroxybenzoic acid, benzyl ester ; Cedarwood oil, Texas ; d-Limonene ; Eucalyptus oil ; HEXAMETHYLINDANOPYRAN ; Geranyl acetate ; Hexyl cinnamic aldehyde ; Helional ; Benzenepropanol, .beta.,.beta.-dimethyl- ; Hexyl salicylate ; Methyl ionone (mixture of isomers) ; 2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol ; Triplal (Vertocitral) ; acetyl cedrene
40.	d-Limonene ; Eucalyptus oil

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance(s) subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Employment restrictions	: Observe restrictions according Act on the Protection of Working Mothers (MuSchG) Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)
Water hazard class (WGK)	: WGK 2, significant hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen	: Cedarwood oil, Texas ,Eucalyptus oil,Liffarome,Terpineol,Triplal (Vertocitral) are listed
SZW-lijst van mutagene stoffen	: Eucalyptus oil,Liffarome,Terpineol,Triplal (Vertocitral) are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

Denmark

Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Classification according to Regulation (EC) No. 1272/2008 [CLP]:	
Acute Tox. 4 (Oral)	H302
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 2	H411

Full text of H- and EUH-phrases:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) 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
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
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
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

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.