

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

1.1. Product identifier

Product form : Mixture
Product name : MAGNOLIA
Product code
Product group

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Ecoflores
ul. Waksmundzka 34, 34-400 Nowy Targ, Polska
T: +48-604-508-229
kontakt@ecoflores.eu www.ecoflores.eu

1.4. Emergency telephone number

Emergency number 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

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

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) :

Warning

Hazardous ingredients :

METHYL IONONE GAMMA, METHYL OCTIN CARBONATE, GERANIOL, HYDROXY-CITRONELLAL, Linalool, ALLYL CYCLO HEXYL PROPIONATE, CITRONELLOL, CYCLAMEN ALDEHYDE, DAMASCONE DELTA, AMYL CINNAMIC ALDEHYDE

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
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.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

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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]
DIOCTYL ADIPATE substance with national workplace exposure limit(s) (PL)	(CAS-No.) 103-23-1 (EC-No.) 203-090-1	30 – 70	Not classified
METHYL DIHYDRO JASMONATE	(CAS-No.) 24851-98-7 (EC-No.) 246-495-9	5 – 10	Aquatic Chronic 3, H412
BENZYL BENZOATE	(CAS-No.) 120-51-4 (EC-No.) 204-402-9 (EC Index-No.) 607-085-00-9	5 – 10	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2H-pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)-	(CAS-No.) 63500-71-0 (EC-No.) 405-040-6 (EC Index-No.) 603-101-00-3	1 – 5	Eye Irrit. 2, H319
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran	(CAS-No.) 1222-05-5 (EC-No.) 214-946-9 (EC Index-No.) 603-212-00-7	1 – 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ISO PROPYL MYRISTATE	(CAS-No.) 110-27-0 (EC-No.) 203-751-4	1 – 5	Aquatic Chronic 3, H412
LINALOOL	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2	1 – 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
2-tert-Butylcyclohexyl acetate	(CAS-No.) 88-41-5 (EC-No.) 201-828-7	1 – 5	Aquatic Chronic 2, H411
HYDROXY-CITRONELLAL	(CAS-No.) 107-75-5 (EC-No.) 203-518-7	1 – 5	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
GERANIOL	(CAS-No.) 106-24-1 (EC-No.) 203-377-1 (EC Index-No.) 603-241-00-5	1 – 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
DIHYDRO MYRCENOL	(CAS-No.) 18479-58-8 (EC-No.) 242-362-4	1 – 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319
CITRONELLOL	(CAS-No.) 106-22-9 (EC-No.) 203-375-0	0.5 – 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
ALPHA-ISOMETHYL IONONE	(CAS-No.) 127-51-5 (EC-No.) 204-846-3	0.5 – 1	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
CIS-3-HEXENYL SALICYLATE	(CAS-No.) 65405-77-8 (EC-No.) 265-745-8	< 0.5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
UNDECAVERTOL	(CAS-No.) 81782-77-6 (EC-No.) 279-815-0	< 0.5	Aquatic Acute 1, H400 Aquatic Chronic 2, H411
PHENYL ETHYL ALCOHOL	(CAS-No.) 60-12-8 (EC-No.) 200-456-2	< 0.5	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319
BENZYL ACETATE substance with national workplace exposure limit(s) (BE, DK, ES, IE, LT, LV, PT, RO)	(CAS-No.) 140-11-4 (EC-No.) 205-399-7	< 0.5	Aquatic Chronic 3, H412
DIPROPYLENE GLYCOL substance with national workplace exposure limit(s) (DE, CH)	(CAS-No.) 110-98-5 (EC-No.) 246-770-3	< 0.5	Not classified
CYCLAMEN ALDEHYDE	(CAS-No.) 103-95-7 (EC-No.) 203-161-7	< 0.5	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412

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ALLYL CYCLO HEXYL PROPIONATE	(CAS-No.) 2705-87-5 (EC-No.) 220-292-5	< 0.5	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
DAMASCONE DELTA	(CAS-No.) 57378-68-4 (EC-No.) 260-709-8	< 0.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
AMYL CINNAMIC ALDEHYDE	(CAS-No.) 122-40-7 (EC-No.) 204-541-5	< 0.5	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
CYCLOGALBONATE	(CAS-No.) 68901-15-5 (EC-No.) 272-657-3	< 0.5	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
METHYL OCTIN CARBONATE	(CAS-No.) 111-80-8 (EC-No.) 203-909-2	< 0.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
BENZYL ALCOHOL substance with national workplace exposure limit(s) (BG, CZ, DE, FI, LT, LV, PL, CH)	(CAS-No.) 100-51-6 (EC-No.) 202-859-9 (EC Index-No.) 603-057-00-5	< 0.5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319
LIMONENE substance with national workplace exposure limit(s) (BE, DE, ES, FI, NO, CH)	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7	< 0.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
P-CYMENE substance with national workplace exposure limit(s) (DK, EE, LT, SE, IS)	(CAS-No.) 99-87-6 (EC-No.) 202-796-7	< 0.5	Flam. Liq. 3, H226 Repr. 2, H361 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
BENZALDEHYDE substance with national workplace exposure limit(s) (BG, FI, HU, LT, LV, PL)	(CAS-No.) 100-52-7 (EC-No.) 202-860-4 (EC Index-No.) 605-012-00-5	< 0.5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412
PARA CRESOL substance with national workplace exposure limit(s) (AT, DK, FI, PL, PT, SE, SK, IS)	(CAS-No.) 106-44-5 (EC-No.) 203-398-6 (EC Index-No.) 604-004-00-9	< 0.5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412
ETHYL ACETATE substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH); substance with a Community workplace exposure limit	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5	< 0.5	Flam. Liq. 1, H224 Eye Irrit. 2, H319 STOT SE 3, H336
ALCOHOL C 10 substance with national workplace exposure limit(s) (BG, LT, LV, RO, CH)	(CAS-No.) 112-30-1 (EC-No.) 203-956-9	< 0.5	Eye Irrit. 2, H319 Aquatic Chronic 2, H411
ETHYL BENZOATE substance with national workplace exposure limit(s) (RO)	(CAS-No.) 93-89-0 (EC-No.) 202-284-3	< 0.5	Not classified
ALPHA PINENE substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO, CH)	(CAS-No.) 80-56-8 (EC-No.) 201-291-9	< 0.5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- 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 : Call a poison center or a doctor if you feel unwell.

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

- Symptoms/effects after skin contact : 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.

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 up : Take up liquid spill into absorbent material.
- 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. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

PARA CRESOL (106-44-5)		
EU	Local name	p-Cresol
EU	Remark	skin. (Year of adoption 2002)
EU	Regulatory reference	SCOEL Recommendations

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PARA CRESOL (106-44-5)

Germany	Notes	
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ETHYL ACETATE (141-78-6)

EU	Local name	Ethyl acetate
EU	IOEL TWA	734 mg/m ³
EU	IOEL TWA [ppm]	200 ppm
EU	IOEL STEL	1468 mg/m ³
EU	IOEL STEL [ppm]	400 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Germany	Notes	
United Kingdom	Local name	Ethyl acetate
United Kingdom	WEL TWA (OEL TWA) [1]	734 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	200 ppm
United Kingdom	WEL STEL (OEL STEL)	1468 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	400 ppm
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

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
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: ≈ 94.9 °C
Auto-ignition temperature	: No data available

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Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
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
Oxidising properties	: No data available
Explosive 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)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

2-tert-Butylcyclohexyl acetate (88-41-5)

LD50 oral	4600 mg/kg bodyweight
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PHENYL ETHYL ALCOHOL (60-12-8)

LD50 oral rat	> 1790 mg/kg (Rat, Oral)
LD50 oral	1610 mg/kg bodyweight
LD50 dermal rabbit	> 808 mg/kg (Rabbit, Dermal)
LD50 dermal	2500 mg/kg bodyweight
LC50 Inhalation - Rat	> 1.4 mg/l (4 h, Rat, Inhalation)

METHYL OCTIN CARBONATE (111-80-8)

LD50 oral	1600 mg/kg bodyweight
LD50 dermal	4500 mg/kg bodyweight

BENZYL BENZOATE (120-51-4)

LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral, 14 day(s))
LD50 oral	1500 mg/kg bodyweight
LD50 dermal rabbit	> 2 ml/kg (Modification of Draize 1959 method, 4 h, Rabbit, Experimental value, Dermal)
LD50 dermal	4000 mg/kg bodyweight

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LINALOOL (78-70-6)	
LD50 oral rat	2790 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	2790 mg/kg bodyweight
LD50 dermal rabbit	5610 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 7 day(s))

DIPROPYLENE GLYCOL (110-98-5)	
LD50 oral rat	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	> 5010 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal)

HYDROXY-CITRONELLAL (107-75-5)	
LD50 oral rat	> 6400 mg/kg bodyweight (Equivalent or similar to OECD 401, 7 day(s), Rat, Male / female, Experimental value, Oral, 7 day(s))
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Experimental value, Dermal, 14 day(s))

METHYL DIHYDRO JASMONATE (24851-98-7)	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)

GERANIOL (106-24-1)	
LD50 oral rat	3600 mg/kg bodyweight (Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	3600 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Experimental value, Dermal)

ISO PROPYL MYRISTATE (110-27-0)	
LD50 oral rat	> 10000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)

1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran (1222-05-5)	
LD50 oral rat	> 4640 mg/kg (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral, 7 day(s))
LD50 dermal rat	> 10000 mg/kg (Equivalent or similar to OECD 402, Rat, Female, Experimental value, Dermal, 7 day(s))

DIHYDRO MYRCENOL (18479-58-8)	
LD50 oral	3600 mg/kg bodyweight

DAMASCONE DELTA (57378-68-4)	
LD50 oral	1400 mg/kg bodyweight

CYCLOGALBONATE (68901-15-5)	
LD50 oral	682 mg/kg bodyweight

CYCLAMEN ALDEHYDE (103-95-7)	
LD50 oral	3810 mg/kg bodyweight

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CITRONELLOL (106-22-9)	
LD50 oral	3450 mg/kg bodyweight
LD50 dermal	2650 mg/kg bodyweight

ALLYL CYCLO HEXYL PROPIONATE (2705-87-5)	
LD50 oral	480 mg/kg bodyweight
LD50 dermal	1600 mg/kg bodyweight
LC50 Inhalation - Rat (Vapours)	11 mg/l/4h

AMYL CINNAMIC ALDEHYDE (122-40-7)	
LD50 oral rat	3730 mg/kg (Rat, Oral)
LD50 oral	3730 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Dermal)

BENZALDEHYDE (100-52-7)	
LD50 oral rat	1300 mg/kg (Rat, Oral)
LD50 oral	1430 mg/kg bodyweight
LD50 dermal rat	> 1250 mg/kg (Rat, Dermal)
LD50 dermal rabbit	5000 mg/kg (Rabbit, Dermal)
LD50 dermal	2500 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	1.5 mg/l/4h

BENZYL ACETATE (140-11-4)	
LD50 oral rat	2490 mg/kg (Rat, Oral)
LD50 oral	2490 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)

BENZYL ALCOHOL (100-51-6)	
LD50 oral rat	1620 mg/kg bw/day (Rat, Male, Experimental value, Oral)
LD50 oral	1620 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LD50 dermal	2500 mg/kg bodyweight
LC50 Inhalation - Rat	> 4.178 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Experimental value, Inhalation (aerosol))

ALPHA PINENE (80-56-8)	
LD50 oral rat	3700 mg/kg (Rat, Male, Weight of evidence, Oral)
LD50 oral	500 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (24 h, Rabbit, Weight of evidence, Dermal)

LIMONENE (5989-27-5)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Read-across, Oral)
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Weight of evidence, Dermal)

PARA CRESOL (106-44-5)	
LD50 oral	207 mg/kg bodyweight

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LD50 dermal	300 mg/kg bodyweight
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P-CYMENE (99-87-6)

LD50 oral	4750 mg/kg bodyweight
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ETHYL BENZOATE (93-89-0)

LD50 oral	2500 mg/kg bodyweight
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DIOCTYL ADIPATE (103-23-1)

LD50 oral rat	> 20000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)
LC50 Inhalation - Rat	> 5.7 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol))

ALCOHOL C 10 (112-30-1)

LD50 oral rat	4720 mg/kg (Rat, Oral)
LD50 dermal rabbit	3560 mg/kg (Rabbit, Dermal)

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: 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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LIMONENE (5989-27-5)

IARC group	3 - Not classifiable
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DIOCTYL ADIPATE (103-23-1)

IARC group	3 - Not classifiable
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Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

LINALOOL (78-70-6)

NOAEL (dermal, rat/rabbit, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
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Aspiration hazard	: Not classified
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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.

PHENYL ETHYL ALCOHOL (60-12-8)

LC50 - Fish [1]	220 – 260 mg/l (96 h, Leuciscus idus)
EC50 - Crustacea [1]	287.17 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna)
EC50 72h - Algae [1]	490 mg/l (Scenedesmus subspicatus)

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BENZYL BENZOATE (120-51-4)	
LC50 - Fish [1]	2.32 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	3.09 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	0.475 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)

LINALOOL (78-70-6)	
LC50 - Fish [1]	27.8 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 96h - Algae [1]	88.3 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [2]	156.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)

DIPROPYLENE GLYCOL (110-98-5)	
LC50 - Fish [1]	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Semi-static system, Fresh water, Experimental value)
LC50 - Other aquatic organisms [1]	3181 mg/l (Other, 48 h, Xenopus laevis, Fresh water, Experimental value)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Fresh water, Experimental value)

HYDROXY-CITRONELLAL (107-75-5)	
LC50 - Fish [1]	31.6 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	410 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	123.32 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)

METHYL DIHYDRO JASMONATE (24851-98-7)	
EC50 - Crustacea [1]	> 16.1 mg/l

GERANIOL (106-24-1)	
LC50 - Fish [1]	22 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	10.8 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	13.1 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)

ISO PROPYL MYRISTATE (110-27-0)	
LC50 - Fish [1]	8400 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio)
EC50 - Crustacea [1]	100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna)

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1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran (1222-05-5)

LC50 - Fish [1]	0.95 mg/l (Equivalent or similar to OECD 203, 96 h, Oryzias latipes, Semi-static system, Fresh water, Experimental value)
EC50 - Crustacea [1]	0.3 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)

AMYL CINNAMIC ALDEHYDE (122-40-7)

LC50 - Fish [1]	3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Experimental value)
EC50 - Crustacea [1]	1.1 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Experimental value)

BENZALDEHYDE (100-52-7)

LC50 - Fish [1]	11.2 mg/l (96 h, Salmo gairdneri, Flow-through system)
EC50 - Crustacea [1]	50 mg/l (24 h, Daphnia magna)
EC50 72h - Algae [1]	34 mg/l (Scenedesmus quadricauda)

BENZYL ACETATE (140-11-4)

LC50 - Fish [1]	68 mg/l (96 h, Pisces)
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BENZYL ALCOHOL (100-51-6)

LC50 - Fish [1]	460 mg/l (EPA OPP 72-1, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	230 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, GLP)
ErC50 algae	770 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

LIMONENE (5989-27-5)

LC50 - Fish [1]	720 µg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	150 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)

DIOCTYL ADIPATE (103-23-1)

LC50 - Fish [1]	54 – 150 mg/l (96 h, Salmo gairdneri, Static system)
EC50 - Crustacea [1]	> 500 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h - Algae [1]	> 500 mg/l (DIN 38412-9, Scenedesmus subspicatus, Static system, Fresh water, Experimental value, Biomass)

ALCOHOL C 10 (112-30-1)

LC50 - Fish [1]	2.2 – 2.5 mg/l (96 h, Pimephales promelas, Flow-through system)
EC50 - Crustacea [1]	3 mg/l (48 h, Daphnia magna)

12.2. Persistence and degradability

PHENYL ETHYL ALCOHOL (60-12-8)

Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.45 g O ₂ /g substance
Chemical oxygen demand (COD)	2.5 g O ₂ /g substance
ThOD	2.6 g O ₂ /g substance

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BOD (% of ThOD)	0.558
BENZYL BENZOATE (120-51-4)	
Persistence and degradability	Readily biodegradable in water.
LINALOOL (78-70-6)	
Persistence and degradability	Readily biodegradable in water.
DIPROPYLENE GLYCOL (110-98-5)	
Persistence and degradability	Readily biodegradable in water.
HYDROXY-CITRONELLAL (107-75-5)	
Persistence and degradability	Readily biodegradable in water.
METHYL DIHYDRO JASMONATE (24851-98-7)	
Persistence and degradability	Readily biodegradable in water.
GERANIOL (106-24-1)	
Persistence and degradability	Readily biodegradable in water.
ISO PROPYL MYRISTATE (110-27-0)	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.74 g O ₂ /g substance
ThOD	2.9 g O ₂ /g substance
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran (1222-05-5)	
Persistence and degradability	Not readily biodegradable in the soil. Not readily biodegradable in water.
2H-pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)- (63500-71-0)	
Persistence and degradability	Biodegradability in water: no data available.
DIHYDRO MYRCENOL (18479-58-8)	
Persistence and degradability	Biodegradability in water: no data available.
CYCLAMEN ALDEHYDE (103-95-7)	
Persistence and degradability	Biodegradability in water: no data available.
CITRONELLOL (106-22-9)	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.05 g O ₂ /g substance
ThOD	2.961 g O ₂ /g substance
AMYL CINNAMIC ALDEHYDE (122-40-7)	
Persistence and degradability	Biodegradability in soil: no data available. Readily biodegradable in water.
BENZALDEHYDE (100-52-7)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.62 g O ₂ /g substance

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Chemical oxygen demand (COD)	1.98 g O ₂ /g substance
ThOD	2.42 g O ₂ /g substance
BOD (% of ThOD)	0.67

BENZYL ACETATE (140-11-4)	
Persistence and degradability	Readily biodegradable in water.

BENZYL ALCOHOL (100-51-6)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.6 g O ₂ /g substance
Chemical oxygen demand (COD)	2.4 g O ₂ /g substance
ThOD	2.5 g O ₂ /g substance

ALPHA PINENE (80-56-8)	
Persistence and degradability	Readily biodegradable in water.

LIMONENE (5989-27-5)	
Persistence and degradability	Readily biodegradable in water.
ThOD	3.29 g O ₂ /g substance

DIOCTYL ADIPATE (103-23-1)	
Persistence and degradability	Readily biodegradable in water.

ALCOHOL C 10 (112-30-1)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.012 g O ₂ /g substance
Chemical oxygen demand (COD)	0.072 g O ₂ /g substance
ThOD	3.04 g O ₂ /g substance
BOD (% of ThOD)	0.23 – 0.36

12.3. Bioaccumulative potential

PHENYL ETHYL ALCOHOL (60-12-8)	
Partition coefficient n-octanol/water (Log Pow)	1.38 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

BENZYL BENZOATE (120-51-4)	
BCF - Fish [1]	2.286 (BCFBAF v3.00, Pisces, QSAR)
Partition coefficient n-octanol/water (Log Pow)	3.97 (Experimental value, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

LINALOOL (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

DIPROPYLENE GLYCOL (110-98-5)	
Partition coefficient n-octanol/water (Log Pow)	-0.462 (Test data, Equivalent or similar to OECD 107, 21.7 °C)
Bioaccumulative potential	Bioaccumulation: not applicable.

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HYDROXY-CITRONELLAL (107-75-5)	
BCF - Fish [1]	11.52 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	1.68 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

METHYL DIHYDRO JASMONATE (24851-98-7)	
Partition coefficient n-octanol/water (Log Pow)	3 (Estimated value)

GERANIOL (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	2.6 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

ISO PROPYL MYRISTATE (110-27-0)	
Partition coefficient n-octanol/water (Log Pow)	7.17 (Estimated value)

1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran (1222-05-5)	
BCF - Fish [1]	1550 – 1635 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	5.3 (Experimental value, 25 °C)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

2H-pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)- (63500-71-0)	
Bioaccumulative potential	No bioaccumulation data available.

DIHYDRO MYRCENOL (18479-58-8)	
Partition coefficient n-octanol/water (Log Pow)	3.47 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

CYCLAMEN ALDEHYDE (103-95-7)	
Partition coefficient n-octanol/water (Log Kow)	≈ 3.91
Bioaccumulative potential	No bioaccumulation data available.

CITRONELLOL (106-22-9)	
Partition coefficient n-octanol/water (Log Pow)	3.41 – 3.91

AMYL CINNAMIC ALDEHYDE (122-40-7)	
BCF - Fish [1]	586 (Pisces, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	4.33 – 4.7 (Literature study)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

BENZALDEHYDE (100-52-7)	
BCF - Other aquatic organisms [1]	4.2 – 7.8 (Estimated value)
Partition coefficient n-octanol/water (Log Pow)	1.48 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

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BENZYL ACETATE (140-11-4)	
Partition coefficient n-octanol/water (Log Pow)	1.96 – 2 (QSAR)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

BENZYL ALCOHOL (100-51-6)	
Partition coefficient n-octanol/water (Log Pow)	1 – 1.1 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

ALPHA PINENE (80-56-8)	
BCF - Fish [1]	718 (Pimephales promelas, QSAR)
Partition coefficient n-octanol/water (Log Pow)	4.487 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

LIMONENE (5989-27-5)	
BCF - Fish [1]	864.8 – 1022 (Pisces, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).

DIOCTYL ADIPATE (103-23-1)	
BCF - Fish [1]	27 (Other, 28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value)
BCF - Fish [2]	3.162 (Calculated value)
Partition coefficient n-octanol/water (Log Pow)	8.1 (Calculated)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

ALCOHOL C 10 (112-30-1)	
Partition coefficient n-octanol/water (Log Pow)	4.03 – 4.57

12.4. Mobility in soil

BENZYL BENZOATE (120-51-4)	
Surface tension	0.027 N/m (210 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Low potential for mobility in soil.

LINALOOL (78-70-6)	
Surface tension	8.3 mN/m (20 °C, ISO 9101: Surface active agents - Determination of interfacial tension)
Ecology - soil	No (test)data on mobility of the substance available.

DIPROPYLENE GLYCOL (110-98-5)	
Surface tension	71.4 mN/m (22 °C, 1.01 g/l)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.78 (log Koc, Calculated value)
Ecology - soil	Low potential for adsorption in soil.

HYDROXY-CITRONELLAL (107-75-5)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

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Ecology - soil	Highly mobile in soil.
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GERANIOL (106-24-1)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.85 (log Koc, PCKOCWIN v1.66, Calculated value)
Ecology - soil	Highly mobile in soil.

1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran (1222-05-5)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.87 (log Koc, OECD 106: Adsorption/Desorption Using a Batch Equilibrium Method, Experimental value, GLP)
Ecology - soil	Adsorbs into the soil.

2H-pyran-4-ol, tetrahydro-4-methyl-2-(2-methylpropyl)- (63500-71-0)

Ecology - soil	No (test)data on mobility of the substance available.
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DIHYDRO MYRCENOL (18479-58-8)

Ecology - soil	No (test)data on mobility of the substance available.
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AMYL CINNAMIC ALDEHYDE (122-40-7)

Ecology - soil	Low potential for mobility in soil.
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BENZALDEHYDE (100-52-7)

Surface tension	0.04 N/m (20 °C)
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BENZYL ALCOHOL (100-51-6)

Surface tension	39 mN/m (20 °C)
Ecology - soil	No (test)data on mobility of the substance available.

ALPHA PINENE (80-56-8)

Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.
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LIMONENE (5989-27-5)

Ecology - soil	Adsorbs into the soil.
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DIOCTYL ADIPATE (103-23-1)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.687 (log Koc, SRC PCKOCWIN v1.66, Calculated value)
Ecology - soil	Low potential for mobility in soil.

ALCOHOL C 10 (112-30-1)

Surface tension	0.029 N/m (20 °C)
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12.5. Results of PBT and vPvB assessment

Component

DIOCTYL ADIPATE (103-23-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
BENZYL BENZOATE (120-51-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran (1222-05-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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LINALOOL (78-70-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
HYDROXY-CITRONELLAL (107-75-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
GERANIOL (106-24-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
DIPROPYLENE GLYCOL (110-98-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
AMYL CINNAMIC ALDEHYDE (122-40-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
BENZYL ALCOHOL (100-51-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
LIMONENE (5989-27-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
ALPHA PINENE (80-56-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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 / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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 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

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit

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VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties
Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), 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 (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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. 1	Flammable liquids, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
H224	Extremely flammable liquid and vapour.
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.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

Fragrance Composition Magnolia

Safety Data Sheet

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



Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

SDS EU

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.