



SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : LIMPRO PERFUME CARD WOODY & CITRUS
Product code : LP1V012
UFI : W300-908W-K00M-CK28

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

Application : SU21 Consumer product. Air care products for indoor rooms (continuous action). Airfreshener.

1.3. Details of the supplier of the safety data sheet

Supplier : Dovox B.V.
Leemansweg 40
6827 BX Arnhem, The Netherlands
Telephone : +31-30-7116 824
E-mail : info@dovox.nl
Website : www.dovox.nl

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

NL - Telephone : +31-30-7116 824 (During office hours only)

SECTION 2 HAZARDS IDENTIFICATION

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2.1. Classification of the substance or mixture

CLP classification (1272/2008/EC) : Skin irritation, category 2. Eye irritation, category 2. Skin sensitization, category 1. Hazardous to the aquatic environment — Acute category 1. Hazardous to the aquatic environment — Chronic category 1.

Human health hazards : Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives.
Environmental hazards : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Label elements ((EU) 1272/2008):

Hazard pictograms :



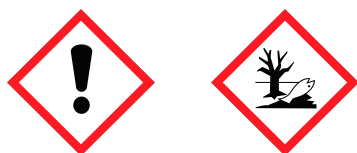
Signal word : Warning

H- and P-phrases : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of water/soap.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container to an official chemical waste depot.

Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:

Hazard pictograms :



Signal word : Warning

H- and P-phrases :

- H317 May cause an allergic skin reaction.
- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P280 Wear protective gloves.
- P302+P352 IF ON SKIN: Wash with plenty of water/soap.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

: Contains: ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers) ; alpha-Hexylcinnamaldehyde ; 1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one ; 1,3,4,6,7,8a-Hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalin-8(5H)-one ; Methyl 2,4-dihydroxy-3,6-dimethylbenzoate ; Citronellol ; Linalyl acetate ; Coumarin ; Linalool ; [3R-(3α,3αβ,6α,7β,8αα)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene ; 1-(5,5-dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one ; d-Limonene ; Citral ; (E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one ; trans-delta-Damascone .

2.3. Other hazards

Other information : Does not contain PBT or vPvB substances in concentrations higher than 0,1%. Human health: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher. Environment: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)	25 - < 50	-----	915-730-3		01-2119489989-04
Benzyl benzoate	10 - < 25	120-51-4	204-402-9		01-2119976371-33
alpha-Hexylcinnamaldehyde	10 - < 25	101-86-0	202-983-3		01-2119533092-50
2,6-Dimethyloct-7-en-2-ol	5 - < 10	18479-58-8	242-362-4		01-2119457274-37
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	1 - < 5	33704-61-9	251-649-3		01-2119977131-40
1,3,4,6,7,8a-Hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalin-8(5H)-one	1 - < 5	23787-90-8	245-890-3		01-2120136162-69



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Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	1 - < 5	4707-47-5	225-193-0	[1]	01-2120762759-36
Citronellol	1 - < 5	106-22-9	203-375-0		01-2119453995-23
Linalyl acetate	1 - < 5	115-95-7	204-116-4		01-2119454789-19
Oxydipropanol	1 - < 5	25265-71-8	246-770-3		
Coumarin	0,1 - < 1	91-64-5	202-086-7		01-2119949300-45
Linalool	0,1 - < 1	78-70-6	201-134-4		01-2119474016-42
[3R-(3α,3aβ,6α,7β,8α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	0,1 - < 5	67874-81-1	267-510-5		01-2120228335-61
1-(5,5-dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one	0,1 - < 1	56973-85-4	260-486-7		01-2120735847-42
Reaction mass of: (E)-oxacyclohexadec-12-en-2-one; (E)-oxacyclohexadec-13-en-2-one	0,1 - < 1	34902-57-3	422-320-3		01-0000016883-62
(±) trans—3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol	0,1 - < 1	107898-54-4	411-580-3		01-0000000316-81
d-Limonene	0,1 - < 1	5989-27-5	227-813-5		01-2119529223-47
Citral	0,1 - < 1	5392-40-5	226-394-6		01-2119462829-23
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	0,1 - < 0,25	-----	911-280-7		01-2119969444-27
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	0,1 - < 0,25	24720-09-0	246-430-4		01-2120105799-47
trans-delta-Damascone	0,01 - < 0,1	71048-82-3	275-156-8		01-2119535122-53

Substance name	Hazard Class	H-phrases	Pictograms	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 1	H315; H317; H410	GHS07; GHS09	
Benzyl benzoate	Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 2	H302; H400; H411	GHS07; GHS09	M (acute) = 1
alpha-Hexylcinnamaldehyde	Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 2	H317; H400; H411	GHS07; GHS09	M (acute) = 1
2,6-Dimethyloct-7-en-2-ol	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2; Aquatic Chronic 2	H315; H317; H319; H411	GHS07; GHS09	
1,3,4,6,7,8a-Hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalin-8(5H)-one	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 2	H315; H317; H411	GHS07; GHS09	
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Skin Sens. 1B	H317	GHS07	
Citronellol	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Linalyl acetate	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Oxydipropanol	-----	-----	-----	
Coumarin	Acute Tox. 4; Skin Sens. 1B; Aquatic Chronic 3	H302; H317; H412	GHS07	
Linalool	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	



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[3R-(3α,3aβ,6α,7β,8aα)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H317; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1
1-(5,5-dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one	Skin Sens. 1B; Aquatic Chronic 2	H317; H411	GHS07; GHS09	
Reaction mass of: (E)-oxacyclohexadec-12-en-2-one; (E)-oxacyclohexadec-13-en-2-one	Aquatic Acute 1; Aquatic Chronic 1	H400; H410	GHS09	M (acute) = 1 M (chronic) = 1
(±) trans-3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol	Skin Irrit. 2; Aquatic Acute 1; Aquatic Chronic 1	H315; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1
d-Limonene	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 3	H226; H304; H315; H317; H400; H412	GHS02; GHS07; GHS08; GHS09	M (acute) = 1
Citral	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1	H302; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	Acute Tox. 4; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H302; H317; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1
trans-delta-Damascone	Acute Tox. 4; Skin Irrit. 2; Aquatic Acute 1; Aquatic Chronic 1; Skin Sens. 1A	H302; H315; H400; H410; H317	GHS07; GHS09	M (acute) = 1

[1] Non classified substance for which a legal or recommended limit value applies. Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

First aid measures

- Inhalation : Not applicable under normal conditions of use. Consult a doctor if victim feels unwell.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation occurs.
- Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor.
- Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell.

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

Effects and symptoms

- Inhalation : No specific effects and/or symptoms are known.
- Skin contact : Irritant. May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin.
- Eye contact : Irritant. May cause redness and pain.
- Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

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



Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

- Suitable : Carbon dioxide (CO₂). Foam. Dry chemical. Water fog.
Not suitable : Water jet. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

- Special exposure hazards : None known.
Hazardous thermal decomposition and combustion products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

- Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions

- Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills: contain with dike. Waste product should not be allowed to contaminate soil or water.
Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Collect spilled material in containers. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

- Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

- Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Avoid contact with eyes and unnecessary contact to skin. Avoid splashing. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

- Storage : Keep frost-free, in a cool, dry and well-ventilated place. Keep away from oxidizing agents.
Recommended packaging : Keep only in the original container.
Non recommended packaging : None known.



7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m ³)	STEL 15 min (mg/m ³)	Comments	Source
Oxydipropanol		67	-		MAC: DE
d-Limonene		28	80		MAC: DE, CH

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)	Inhalation				30 mg/m ³
	Dermal			0,648 mg/kg bw/day	28,7 mg/kg bw/day
Benzyl benzoate	Inhalation		102 mg/m ³		5,1 mg/m ³
	Dermal				2,6 mg/kg bw/day
alpha-Hexylcinnamaldehyde	Inhalation	6,28 mg/m ³			0,078 mg/m ³
	Dermal	0,525 mg/kg bw		0,525 mg/kg bw/day	18,2 mg/kg bw/day
2,6-Dimethyloct-7-en-2-ol	Dermal				7 mg/kg bw/day
	Inhalation				24.7 mg/m ³
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Inhalation				1,47 mg/m ³
	Dermal			5,510 mg/kg bw/day	0,42 mg/kg bw/day
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Dermal			2,5 mg/kg bw/day	
Citronellol	Inhalation	10 mg/m ³		10 mg/m ³	161,6 mg/m ³
	Dermal	2,950 mg/kg bw			327,4 mg/kg bw/day
Linalyl acetate	Dermal	0,2362 mg/kg bw		0,2362 mg/kg bw/day	2,5 mg/kg bw/day
	Inhalation				2,75 mg/m ³
Oxydipropanol	Dermal				84 mg/kg bw/day
	Inhalation				238 mg/m ³
Coumarin	Dermal				0,79 mg/kg bw/day
	Inhalation				6,78 mg/m ³
Linalool	Inhalation				24.58 mg/m ³
	Dermal	3 mg/kg bw		3 mg/kg bw/day	3.5 mg/kg bw/day
[3R-(3α,3aβ,6α,7β,8α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	Inhalation				16.1 mg/m ³
	Dermal			2.03 mg/kg bw/day	4.5 mg/kg bw/day



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1-(5,5-dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one	Dermal				0,714 mg/kg bw/day
(±) trans—3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol	Inhalation				2,52 mg/m3
d-Limonene	Inhalation		NA mg/m3		NA mg/m3
Citral	Dermal				66,7 mg/m3
	Inhalation				9,5 mg/kg bw/day
	Dermal				9 mg/m3
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	Inhalation		141,05 mg/m3		1,7 mg/kg bw/day
					5,97 mg/m3
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	Dermal				1,69 mg/kg bw/day
	Inhalation				2,74 mg/m3
trans-delta-Damascone	Dermal				0,78 mg/kg bw/day
	Inhalation				1,5 mg/m3
	Dermal			0,116 mg/kg bw/day	2,1 mg/kg bw/day

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)	Inhalation				9 mg/m3
	Dermal			0,38 mg/kg bw/day	17,2 mg/kg bw/day
Benzyl benzoate	Oral		25 mg/m3		3 mg/kg bw/day
	Inhalation				1,25 mg/m3
	Dermal				1,3 mg/kg bw/day
alpha-Hexylcinnamaldehyde	Oral		78 mg/kg bw		0,4 mg/kg bw/day
	Inhalation	4,71 mg/m3			0,019 mg/m3
	Dermal	0,0787 mg/kg bw		0,0787 mg/kg bw/day	9,11 mg/kg bw/day
2,6-Dimethyloct-7-en-2-ol	Oral				0,056 mg/kg bw/day
	Dermal				2,5 mg/kg bw/day
	Inhalation				4,35 mg/m3
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Oral				2,5 mg/kg bw/day
	Inhalation				0,44 mg/m3
	Dermal			3,241 mg/kg bw/day	0,25 mg/kg bw/day
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Oral				0,25 mg/kg bw/day
	Dermal			1,25 mg/kg bw/day	
Citronellol	Inhalation	10 mg/m3		10 mg/m3	47,8 mg/m3
	Dermal	2,950 mg/kg bw			196,4 mg/kg bw/day
Linalyl acetate	Oral				13,8 mg/kg bw/day
	Dermal	0,2362 mg/kg bw		0,2362 mg/kg bw/day	1,25 mg/kg bw/day
	Inhalation				0,68 mg/m3
Oxydipropanol	Oral				0,2 mg/kg bw/day
	Dermal				51 mg/kg bw/day
	Inhalation				70 mg/m3



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Coumarin	Oral				24 mg/kg bw/day
	Dermal				0,39 mg/kg bw/day
	Oral				0,39 mg/kg bw/day
	Inhalation				1,69 mg/m3
Linalool	Dermal	1.5 mg/kg bw		1.5 mg/kg bw/day	1.25 mg/kg bw/day
	Inhalation				4.33 mg/m3
	Oral				2.49 mg/kg bw/day
[3R-(3 α ,3a β ,6 α ,7 β ,8a α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	Inhalation				4.7 mg/m3
	Dermal			1.22 mg/kg bw/day	2.7 mg/kg bw/day
	Oral				2.7 mg/kg bw/day
1-(5,5-dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one	Oral				0,255 mg/kg bw/day
	Inhalation			0,377 mg/m3	
d-Limonene	Dermal				0,255 mg/kg bw/day
	Inhalation				16,6 mg/m3
	Dermal				4,8 mg/kg bw/day
	Oral				4,8 mg/kg bw/day
Citral	Dermal				1 mg/kg bw/day
	Inhalation				2,7 mg/m3
	Oral				0,6 mg/kg bw/day
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	Inhalation		34,78 mg/m3		1,05 mg/m3
	Dermal				0,605 mg/kg bw/day
	Oral		20 mg/kg bw		0,605 mg/kg bw/day
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	Inhalation				0,67 mg/m3
	Dermal				0,39 mg/kg bw/day
	Oral				0,39 mg/kg bw/day
trans-delta-Damascone	Dermal			0,069 mg/kg bw/day	1.25 mg/kg bw/day
	Oral				0,25 mg/kg bw/day
	Inhalation				0,43 mg/m3

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)	Water	0.025 mg/l	0.0025 mg/l	
	Sediment	3,73 mg/kg	0,75 mg/kg	
	Intermittent water			0,0013 mg/l
	STP			10 mg/l
	Soil			2.7 mg/kg
Benzyl benzoate	Oral			26.7 mg/kg food
	Water	0,017 mg/l	0,002 mg/l	
	Sediment	10,66 mg/kg	1,07 mg/kg	
	STP			100 mg/l
alpha-Hexylcinnamaldehyde	Soil			2,12 mg/kg
	Water	0.001 mg/l		
	Sediment	3.2 mg/kg	0.064 mg/kg	
	Intermittent water			0,03 mg/l
	STP			10 mg/l
	Soil			0.398 mg/kg
	Oral			6.6 mg/kg food



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2,6-Dimethyloct-7-en-2-ol	Water	0,0278 mg/l	0,0027 mg/l	
	Sediment	0,594 mg/kg	0,0594 mg/kg	
	Intermittent water			0,278 mg/l
	STP			10 mg/l
	Soil			0,103 mg/kg
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Oral			111 mg/kg food
	Water	0,004 mg/l	0 mg/l	
	Sediment	0,0991 mg/kg	0,00991 mg/kg	
	STP			10 mg/l
	Soil			0,0174 mg/kg
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Oral			1,11 mg/kg food
	Water	0,0033 mg/l	0,00033 mg/l	
	Sediment	0,089 mg/kg	0,0089 mg/kg	
	STP			10 mg/l
	Soil			0,016 mg/kg
Citronellol	Water	0,002 mg/l	0 mg/l	
	Sediment	0,026 mg/kg	0,003 mg/kg	
	Intermittent water			0,024 mg/l
	STP			580 mg/l
	Soil			0,004 mg/kg
Linalyl acetate	Water	0,011 mg/l	0,001 mg/l	
	Sediment	0,609 mg/kg	0,061 mg/kg	
	Intermittent water			0,11 mg/l
	STP			1 mg/l
	Soil			0,115 mg/kg
Oxydipropanol	Water	0,1 mg/l	0,01 mg/l	
	Sediment	0,238 mg/kg	0,0238 mg/kg	
	Intermittent water			1 mg/l
	STP			1000 mg/l
	Soil			0,0253 mg/kg
Coumarin	Oral			313 mg/kg food
	Water	0,019 mg/l	0,0019 mg/l	
	Sediment	0,15 mg/kg	0,015 mg/kg	
	Intermittent water			0,0142 mg/l
	STP			6,4 mg/l
Linalool	Soil			0,018 mg/kg
	Oral			30,7 mg/kg food
	Water	0,2 mg/l	0,02 mg/l	
	Sediment	2,22 mg/kg	0,222 mg/kg	
	Intermittent water			2 mg/l
[3R-(3 α ,3 α β ,6 α ,7 β ,8 $\alpha\alpha$)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	STP			10 mg/l
	Soil			0,327 mg/kg
	Oral			7,8 mg/kg food
	Water	0,00043 mg/l	0,000043 mg/l	
	Sediment	1.29 mg/kg	0.129 mg/kg	
1-(5,5-dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one	STP			100 mg/l
	Soil			0.257 mg/kg
	Water	0,0017 mg/l	0,00017 mg/l	
	Sediment	0.242 mg/kg	0.024 mg/kg	
	STP			4.6 mg/l
	Soil			0.047 mg/kg
	Oral			5.67 mg/kg food

(±) trans—3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol	Water	0.0012 mg/l	0.0001 mg/l	
	Sediment	0.246 mg/kg	0.0246 mg/kg	
	STP			0.1 mg/l
	Soil			0.048 mg/kg
	Oral			222.2 mg/kg food
d-Limonene	Water	0.014 mg/l	0.0014 mg/l	
	Sediment	3.85 mg/kg	0.385 mg/kg	
	STP			1.8 mg/l
	Soil			0.763 mg/kg
	Oral			133 mg/kg food
Citral	Water	0,00678 mg/l	0,000678 mg/l	
	Sediment	0,125 mg/kg	0,0125 mg/kg	
	Intermittent water			0,0678 mg/l
	STP			1,6 mg/l
	Soil			0,0209 mg/kg
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	Water	0.00244 mg/l	0.000244 mg/l	
	Sediment	1.23 mg/kg	0.123 mg/kg	
	Intermittent water			0,0077 mg/l
	STP			10 mg/l
	Soil			5.33 mg/kg
	Oral			40.33 mg/kg food
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	Water	0.000658 mg/l	0.000066 mg/l	
	Sediment	0.064 mg/kg	0.006 mg/kg	
	STP			3,2 mg/l
	Soil			0.012 mg/kg
	Oral			6,67 mg/kg food
trans-delta-Damascone	Water	0.0074 mg/l	0.00074 mg/l	
	Sediment	0.958 mg/kg	0.0958 mg/kg	
	Intermittent water			0,0035 mg/l
	STP			2,41 mg/l
	Soil			0.187 mg/kg

8.2. Exposure controls

Engineering measures : Comply with standard precautionary measures for working with chemicals.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

:



- Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. Suitable material: nitril. Indication of permeation breakthrough time: not known.
- Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.
- Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. ± 0,5 mm. Indication of permeation breakthrough time: not known.



Eye protection	: Wear appropriate safety glasses with side shields, in accordance with EN 166 / ISO 16321-3, when there is danger of possible eye contact.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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9.1. Information on basic physical and chemical properties

Physical state	: Liquid.	Impregnated material.
Colour	: Light yellow.	
Odour	: Perfumed.	
Odour threshold	: Not known.	
pH	: Not applicable.	Waterfree product.
Solubility in water	: Not soluble.	
Partition coefficient (n-octanol/water)	: Not applicable.	Not measured. Not relevant for mixtures.
Flash point	: > 100 °C	Closed cup.
Auto ignition temperature	: > 220 °C	
Boiling point/boiling range	: > 100 °C	
Melting point/melting range	: < 0 °C	
Explosive properties	: Not explosive.	
Explosion limits (% in air)	: Not known.	Lower explosion limit in air (%): 0,7 (Linalyl acetate) Upper explosion limit in air (%): 4,3 (Linalyl acetate) Does not contain oxidizing substances.
Oxidising properties	: Not applicable.	
Decomposition temperature	: Not applicable.	
Viscosity (20°C)	: Not known.	
Viscosity (40°C)	: Not relevant.	The product contains < 10% substances having an aspiration hazard.
Vapour pressure (20°C)	: Not known.	
Relative vapour density	: Not known	(air = 1)
Relative density (20°C)	: 0,978 g/ml	
Particle characteristics	: Not applicable.	Liquid.

9.2. Other information

Other information	: Not relevant.
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SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity	: See sub-sections below.
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10.2. Chemical stability

Stability	: Stable under normal conditions.
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10.3. Possibility of hazardous reactions

Reactivity	: No other hazardous reactions known.
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10.4. Conditions to avoid

Conditions to avoid	: See section 7.
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10.5. Incompatible materials

Materials to avoid	: Keep away from oxidizing agents.
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10.6. Hazardous decomposition products

Hazardous decomposition : Not known.
products

SECTION 11 TOXICOLOGICAL INFORMATION

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

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 19 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 5000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Irritant. May cause redness. Prolonged contact may dry out and defat the skin.
- Sensitisation : May cause sensitisation by skin contact. May produce an allergic reaction.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

- Corrosion/irritation : Irritant.

Ingestion

- Acute toxicity : Calculated LD50: > 3210 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Target organ toxicity (SE) : No specific effects and/or symptoms are known.
- Target organ toxicity (RE) : No specific effects and/or symptoms are known.
- Aspiration : Danger of aspiration is not expected. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : No specific effects and/or symptoms are known.
- Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.
- Reprotoxicity : Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rat
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	Skin irritation	Irritant	----	----



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alpha-Hexylcinnamaldehyde	Eye irritation - estimate	Non-irritant	QSAR	-----
	NOAEL (oral)	120 mg/kg bw/d	OECD 408	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (development, oral)	480 mg/kg bw/d	OECD 414	Rat
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOAEL (fertility, oral)	> 300 mg/kg bw/d		Rat
	NOAEL (development, oral)	100 mg/kg bw/d	OECD 421	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Eye irritation	Non-irritant		Rabbit
	NOAEL (oral) - estimate	30 mg/kg bw/d	Read across	Rat
	LD50 (dermal)	> 3000 mg/kg bw	OECD 402	Rabbit
	LC50 (inhalation)	> 5000 mg/m3	OECD 403	Rat
2,6-Dimethyloct-7-en-2-ol	LD50 (oral)	> 2450 mg/kg bw	OECD 401	Rat
	Skin sensitisation	2372 ug/cm2	OECD 429	Mouse
	Skin irritation	Moderately irritant	OECD 404	Rabbit
	NOAEL (dermal)	25 mg/kg bw/d		Rat
	NOAEL (development) - estimate	1000 mg/kg.d	Read across	Rat
	Mutagenicity	Not mutagenic	OECD 471	
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	NOAEL (oral) - estimate	500 mg/kg bw/d	Read across	Rat
	LD50 (oral)	3600 mg/kg bw	-----	Rat
	Skin sensitisation	Not sensitizing		
	Skin irritation	Slightly irritant	-----	Rabbit
	Eye irritation	Moderately irritant	OECD 405	Rabbit
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rabbit
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Mouse
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	LD50 (oral)	> 2325 mg/kg bw	OECD 401	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Skin irritation	Irritant		Human
	Eye irritation	Irritant	-----	-----
	NOAEL (oral)	10 mg/kg bw/d	OECD 408	Rat
	NOAEL (development, oral)	115 mg/kg bw/d	OECD 421	Rat
	NOAEL (fertility, oral)	115 mg/kg bw/d	OECD 421	Rat
	Skin irritation	Irritant		
	LD50 (oral)	> 2000 mg/kg bw	OECD 420	Rat
1,3,4,6,7,8a-Hexahydro-1,1,5,5-tetramethyl-2H-2,4a-methanonaphthalin-8(5H)-one	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rat
	Skin irritation	Non-irritant	OECD 439	
	Eye irritation	Non-irritant	OECD 405	Rabbit
	NOAEL (oral)	> 717 mg/kg bw/d	OECD 422	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Positive	OECD 473	-----
	NOAEL (fertility, oral)	> 1000 mg/kg bw/d	OECD 422	Rat
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate				



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Citronellol	NOAEL (development, oral)	> 1000 mg/kg bw/d	OECD 422	Rat
	NOEL (carcinogenicity) - estimate	Not carcinogenic		
	Genotoxicity - in vitro	Not genotoxic		
	Skin sensitisation	10875 ug/cm2	OECD 429	Mouse
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	NOAEL (oral)	> 50 mg/kg bw/d		Rat
	Skin irritation	Moderately irritant		Rabbit
	LD50 (oral)	3450 mg/kg bw	-----	Rat
	LD50 (dermal)	2650 mg/kg bw		Rabbit
	NOAEL (fertility, dermal)	300 mg/kg bw/d	OECD 421	Rat
Linalyl acetate	NOAEL (developmental toxicity, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	Skin irritation	Moderately irritant	Patch test	Human
	Eye irritation	Moderately irritant		Rabbit
	Outdoor cleaners (excludes stone, concrete and similar surfaces)	1000 mg/kg bw/d	OECD 414	Rat
	LD50 (oral)	13934 mg/kg bw	-----	Rat
	LC50 (inhalation)	> 2740 mg/m3	-----	Mouse
	Skin irritation	Non-irritant	-----	Human
	Skin irritation	Irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (oral) - estimate	160 mg/kg bw/d	OECD 407	Rat
Coumarin	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOAEL (development, oral)	> 1000 mg/kg bw/d	OECD 414	Rat
	LC50 (inhalation) - estimate	> 5000 mg/m3	-----	Rat
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	Skin sensitisation	> 12500 ug/cm2	OECD 429	Mouse
	NOAEL (development, oral)	> 115 mg/kg bw/d		Mouse
	Eye irritation	Non-irritant		Rabbit
Linalool	LD50 (oral)	680 mg/kg bw	-----	Rat
	NOAEL (oral)	> 138,3 mg/kg bw/d		Mouse
	Skin irritation	Non-irritant		Rabbit
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vivo	> 105 mg/kg bw/d	OECD 474	Mouse
	NOEL (carcinogenicity) - estimate	Not carcinogenic		
	NOAEL (development, oral)	365 mg/kg bw/d	-----	Rat
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin sensitisation	12650 ug/cm2	OECD 429	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (fertility, oral)	500 mg/kg bw/d		Rat
	Skin irritation	Irritant	OECD 404	Rabbit
	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat



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[3R-(3 α ,3a β ,6 α ,7 β ,8a α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	Genotoxicity - in vivo	Not genotoxic	OECD 475	Mouse
	LD50 (dermal)	5610 mg/kg bw	-----	Rabbit
	Skin irritation	Mildly irritant	-----	Human
	LD50 (oral)	2790 mg/kg bw	-----	Rat
	NOAEL (oral)	117 mg/kg bw/d	-----	Rat
	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rabbit
	LC50 (inhalation) - estimate	> 13000 mg/m3	Read across	
	NOAEL (oral)	51 mg/kg bw/d	OECD 422	
	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
1-(5,5-dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one	LD50 (oral)	> 5000 mg/kg bw		Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (development, oral)	150 mg/kg bw/d	OECD 422	Rat
	Eye irritation	Slightly irritant	OECD 405	Rabbit
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	NOAEL (fertility, oral)	150 mg/kg bw/d	OECD 422	Rat
	Skin irritation	Non-irritant	OECD 404	Rabbit
	Genotoxicity - in vivo	> 2000 mg/kg bw/d		Rat
	NOEL (carcinogenicity, oral)	> 300 mg/kg bw/d	OECD 451	Rat
d-Limonene	Eye irritation	Non-irritant	OECD 405	Rabbit
	Mutagenicity	Negative	OECD 471	
	NOAEL (development, oral)	600 mg/kg bw/d		Rat
	Skin irritation	Irritant	-----	-----
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	LD50 (oral)	> 2000 mg/kg bw	OECD 423	Rat
	Genotoxicity - in vitro	Not genotoxic		
	NOAEL (oral)	150 mg/kg bw/d		Rat
	NOAEL (fertility, oral)	> 1000 mg/kg bw/d	OECD 421	Rat
	Genotoxicity - in vivo	Negative	OECD 474	Mouse
Citral	Eye irritation	Slightly irritant	OECD 405	Rabbit
	Skin irritation	Moderately irritant		Rabbit
	Skin irritation	Irritant		Human
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	NOAEL (developmental toxicity, inh.)	423 mg/m3	-----	Rat
	NOEL (carcinogenicity, oral)	> 100 mg/kg bw/d	OECD 453	Rat
	Mutagenicity	Negative	OECD 471	
	LD50 (oral)	4960 mg/kg bw	-----	Rat
	Genotoxicity - in vitro	Not genotoxic		
	NOAEL (oral)	833 mg/kg bw/d	-----	Rat
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	LD50 (dermal)	2250 mg/kg bw	-----	Rabbit
	NOAEL (development, oral)	200 mg/kg bw/d	OECD 421	Rat
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	LD50 (oral)	1670 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	2900 mg/kg bw	OECD 402	Rat
	Eye irritation	Mildly irritant	OECD 405	Rabbit



trans-delta-Damascone	Skin irritation	Slightly irritant	-----	Rabbit
	NOAEL (oral) - estimate	30 mg/kg bw/d	Read across	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster
	NOAEL (development) - estimate	400 mg/kg.d	Read across	Rat
	LD50 (dermal) - estimate	> 5000 mg/kg bw	Read across	
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	Skin irritation	Irritant	OECD 439	
	Skin sensitisation - estimate	Sensitizing.		
	LD50 (oral)	1400 mg/kg bw	-----	Mouse
	NOAEL (oral) - estimate	30 mg/kg bw/d	Read across	Rat
	Genotoxicity - in vitro	Not genotoxic		
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Eye irritation	Non-irritant	OECD 438	
	NOAEL (development) - estimate	> 30 mg/kg.d	Read across	Rat
	NOAEL (fertility, oral)	85 mg/kg bw/d	OECD 407	

11.2. Information on other hazards

Endocrine disrupting properties : This product does not contain components considered to have endocrine disrupting properties at levels of 0.1% or higher.
Other information : Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

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12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Very toxic to aquatic organisms. Calculated LC50 (fish): 2 mg/l. Calculated EC50 (waterflea): 2 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence – degradability : May cause long-term adverse effects in the aquatic environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

12.4. Mobility in soil

Mobility : Adsorbs to soil and has low mobility.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

12.6. Endocrine disrupting properties

Endocrine disrupting properties : This product does not contain components considered to have endocrine disrupting properties at levels of 0.1% or higher.

12.7. Other adverse effects



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Other adverse effects : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-ones (isomers)	Ultimate aerobic biodegradation (%)	0 %	OECD 301 C	
	LC50 (fish)	1,3 mg/l	OECD 203	Lepomis macrochirus
	NOEC (fish)	2,2 mg/l	OECD 203	Lepomis macrochirus
	NOEC (fish)	0,16 mg/l.d	OECD 210	Brachydanio rerio
	EC50 (waterflea)	1,38 mg/l	OECD 202	Daphnia magna
	NOEC (waterflea) - chronic	0,028 mg/l.d	OECD 211	Daphnia magna
	IC50 (algae)	> 2,6 mg/l	OECD 201	Desmodesmus subspicatus
	Log P(ow)	5,23		
Benzyl benzoate	BCF	391		
	IC50 (algae)	0,475 mg/l	OECD 201	Pseudokirchnerella subcapitata
	LC0 (fish)	1,9 mg/l	OECD 203	Brachydanio rerio
	LC100 (fish)	2,84 mg/l	OECD 203	Brachydanio rerio
	Ultimate aerobic biodegradation (%)	94 %	OECD 301 F	
	LC50 (fish)	2,32 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	3,09 mg/l	OECD 202	Daphnia magna
	NOEC (waterflea) - chronic	0,258 mg/l.d	OECD 211	Daphnia magna
alpha-Hexylcinnamaldehyde	Log P(ow)	3,97		
	BCF	24		
	NOEC (fish)	0,93 mg/l	OECD 203	Pimephales promelas
	LC50 (fish)	1,7 mg/l	OECD 203	Pimephales promelas
	Ultimate aerobic biodegradation (%)	97 %	OECD 301 F	
	IC50 (algae)	> 0,32 mg/l	OECD 201	Desmodesmus subspicatus
	Log P(ow)	5,3		
	LC50 (fish)	0,43 mg/l	OECD 203	Cyprinus carpio
[3R-(3α,3aβ,6α,7β,8α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	EC50 (waterflea)	0,48 mg/l	OECD 202	Daphnia magna
	IC50 (algae)	> 1,8 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	60 %	OECD 301 D	-----
	NOEC (fish)	0,52 mg/l	OECD 203	Oncorhynchus mykiss
	LC50 (fish)	2,0 mg/l	OECD 203	Oncorhynchus mykiss
	EC50 (waterflea)	0,48 mg/l	OECD 202	Daphnia magna
	Log P(ow)	5,02		
	LC50 (fish)	1,2 mg/l	OECD 203	
Reaction mass of: (E)-oxacyclohexadec-12-en-2-one; (E)-oxacyclohexadec-13-en-2-one	EC50 (waterflea)	1 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	7 %	OECD 301 C	
	Log P(ow)	4,99		
(±) trans—3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol				



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d-Limonene	LC50 (fish)	0,72 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	0,307 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	71,4 %	OECD 301 B	
	NOEC (waterflea) - chronic	0,08 mg/l.d	OECD 211	Daphnia magna
	IC50 (alga)	0,32 mg/l	OECD 201	Pseudokirchnerella subcapitata
	NOEC (fish)	0,059 mg/l.d		Pimephales promelas
	Log P(ow)	4,38		
	LC50 (fish)	1,34 mg/l		Brachydanio rerio
	EC50 (waterflea)	0,88 mg/l	OECD 202	Daphnia magna
	IC50 (alga)	0,49 mg/l	OECD 201	Pseudokirchnerella subcapitata
Reaction mass of 2-methylbutyl salicylate and pentyl salicylate	NOEC (algae)	0,11 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	81,3 %	OECD 301 B	
	Log P(ow)	4,4		
	BCF	116		
	Ultimate aerobic biodegradation (%)	56 %	OECD 301 F	
	LC50 (fish)	0,628 mg/l		Oryzias latipes
	EC50 (waterflea)	2,37 mg/l	OECD 202	Daphnia magna
	Log P(ow)	3,66		
(E)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one				

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues, impregnated wipes and non-empty pack as hazardous waste.
- Additional warning : None.
- Waste water discharge : Do not dispose of into the environment, drains, sewers or water courses.
- European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.
- Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number or ID number

UN nr. : None.

14.2. UN proper shipping name

Transport name : Not regulated.

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : This product is not classified according to ADR/RID/ADN.

Other information : Exempted according to special provision 335.



IMDG (sea)

Class : This product is not classified according to IMDG.
Other information : Exempted according to special provision 335.

IATA (air)

Class : This product is not classified according to IATA.

14.6. Special precautions for user

Other information : Country specific variations may apply.

14.7. Maritime transport in bulk according to IMO instruments

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION

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

Community regulations : Regulation (EU) No 2020/878 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations. Directive 2008/98/EC (waste).
PIC Regulation : Does not contain substances listed on the PIC list (Regulation EU 649/2012).
POP Regulation : Does not contain substances listed on the POP list (Regulation EU 2019/1021).
Ozone Regulation : Does not contain substances listed on the Ozone Depletion list (Regulation EU 1005/2009).
Explosives Precursors Regulation : Does not contain substances listed on the Explosives Precursors list (Regulation EU 2019/1148).
Drug Precursors Regulation : Does not contain substances listed on the Drug Precursors list (Regulation EC 273/2004).
SEVESO III Directive 2012/18/EU
Hazard code : E1
Hazard category : Environmental hazard
Qualifying quantity : 100 (tonnes) - lower
Qualifying quantity : 200 (tonnes) - upper

15.2. Chemical safety assessment

Chemical safety assessment : A Chemical Safety Assessment has not been carried out.

SECTION 16 OTHER INFORMATION

*

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2020/878 dated 18 June 2020 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

A section with changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be used (but not necessarily are used) in this safety data sheet:

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE : Acute Toxicity Estimate



SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

CLP	: Classification, Labeling & Packaging
CMR	: Carcinogenic, Mutagenic or toxic for Reproduction
EEC	: European Economic Community
GHS	: Globally Harmonized System of Classification and Labelling of Chemicals
IATA	: International Air Transport Association
IBC code	: The IMO International Code for construction and equipment of ships carrying dangerous chemicals in bulk.
IMDG	: International Maritime Dangerous Goods Code
LD50/LC50	: Lethal Dose/Concentration for 50% of a population
MAC	: Maximum Allowable Concentration
MARPOL	: International Convention for the Prevention of Pollution From Ships
NO(A)EL	: No Observed (Adverse) Effect Level
OECD	: Organisation for Economic Co-operation and Development
PBT	: Persistent, Bioaccumulative and Toxic
PC	: Chemical product category
PIC	: The Prior Informed Consent procedure for the import and export of certain hazardous chemicals and pesticides.
POP	: Persistent organic pollutants
PT	: Product type
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	: Sewage Treatment Plant
SU	: Sector of Use
TWA/STEL	: Time-Weighted Average/Short Term Exposure Limit
UN	: United Nations
UFI	: Unique formula identifier
VOC	: Volatile Organic Compounds
vPvB	: Very Persistent and Very Bioaccumulative

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Skin Irrit. 2	: Calculation method.
Eye Irrit. 2	: Calculation method.
Skin Sens. 1/1A/1B	: Calculation method.
Aquatic Chronic 1	: Calculation method.
Aquatic Acute 1	: Calculation method.

Full text of hazard classes mentioned in section 3:

Flam. Liq. 3	: Flammable liquid, category 3.
Acute Tox. 4	: Acute toxicity, category 4.
Skin Irrit. 2	: Skin irritation, category 2.
Eye Irrit. 2	: Eye irritation, category 2.
Skin Sens. 1/1A/1B	: Skin sensitization, category 1/1A/1B.
Asp. Tox. 1	: Aspiration hazard, category 1.
Aquatic Chronic 1	: Hazardous to the aquatic environment — Chronic category 1.
Aquatic Chronic 2	: Hazardous to the aquatic environment — Chronic category 2.
Aquatic Chronic 3	: Hazardous to the aquatic environment — Chronic category 3.
Aquatic Acute 1	: Hazardous to the aquatic environment — Acute category 1.

Full text of H-phrases mentioned in section 3:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.



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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.

Advice on any training appropriate for workers: none.

Country / Language code : EC / EN
Number format : "," used as decimal separator.

End of safety data sheet.