

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING \*

### 1.1. Product identifier

Product name : LIMPRO PARFUM CARD WOODY & FLORAL  
Product code : LP1V011  
UFI : GD70-90XN-M00P-KKKR

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

Application : SU21 Consumer product. PC3 Air care products for indoor rooms (instant action). Airfreshener.

### 1.3. Details of the supplier of the safety data sheet

Supplier : Dovox B.V.  
Computerweg 3  
3542 DP UTRECHT, 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 \*

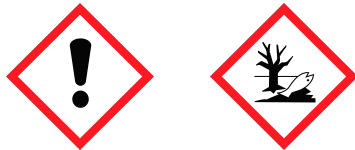
### 2.1. Classification of the substance or mixture

CLP classification (1272/2008/EC) : Skin irritation, category 2. Eye irritation, category 2. Skin sensitization, category 1. Hazardous to the aquatic environment — Chronic category 2.  
Human health hazards : Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.  
Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives.  
Environmental hazards : Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :



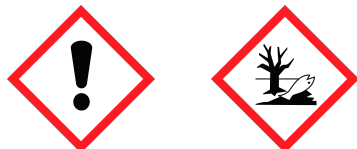
Signal word : Warning

H- and P-phrases : H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H411 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 gloves 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 gloves 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-one ; Linalool ; Benzyl salicylate ; (Ethoxymethoxy)cyclododecane ; 3,7-Dimethylnona-1,6-dien-3-ol ; Linalyl acetate ; 4-tert-Butylcyclohexyl acetate ; 1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one ; (Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one ; 3,7-Dimethyloctan-3-ol ; Citronellol ; d-Limonene ; Isoeugenol ; (E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one .

### 2.3. Other hazards

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

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS \*

### 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-one	10 - < 25	54464-57-2	259-174-3		01-2119489989-04
Linalool	5 - < 10	78-70-6	201-134-4		01-2119474016-42
Benzyl salicylate	5 - < 10	118-58-1	204-262-9		01-2119969442-31
p-Anisaldehyde	1 - < 5	123-11-5	204-602-6		01-2119977101-43
(2E)-2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	1 - < 5	106185-75-5	701-122-3		01-2119529224-45
(Ethoxymethoxy)cyclododecane	1 - < 5	58567-11-6	261-332-1		01-2119971571-34
3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	1 - < 5	67801-20-1	267-140-4		01-2119940039-39
3,7-Dimethylnona-1,6-dien-3-ol	1 - < 5	10339-55-6	233-732-6		01-2119969272-32
Linalyl acetate	1 - < 5	115-95-7	204-116-4		01-2119454789-19
4-tert-Butylcyclohexyl acetate	1 - < 5	32210-23-4	250-954-9		01-2119976286-24
Oxydipropanol	1 - < 5	25265-71-8	246-770-3	MAC	
Allyl (3-methylbutoxy)acetate	0,1 - < 1	67634-00-8	266-803-5		01-2120795456-39
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	0,1 - < 1	33704-61-9	251-649-3		01-2119977131-40



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[3R-(3α,3αβ,7β,8α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	0,1 - < 1	469-61-4	207-418-4	
(Z)-3-hexenyl salicylate	0,1 - < 1	65405-77-8	265-745-8	01-2119987320-37
(Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one	0,1 - < 1	81786-73-4	279-822-9	01-2119980043-42
3,7-Dimethyloctan-3-ol	0,1 - < 1	78-69-3	201-133-9	01-2119454788-21
Benzyl acetate	0,1 - < 1	140-11-4	205-399-7	
Bornan-2-one	0,1 - < 1	76-22-2	200-945-0	
Citronellol	0,1 - < 1	106-22-9	203-375-0	01-2119453995-23
d-Limonene	0,1 - < 1	5989-27-5	227-813-5	01-2119529223-47
Isoeugenol	0,01 - < 0,1	97-54-1	202-590-7	
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	0,01 - < 0,1	23726-93-4	245-844-2	01-2120105798-49

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-one	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 1	H315; H317; H410	GHS07; GHS09	M (chronic) = 1
Linalool	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Benzyl salicylate	Eye Irrit. 2; Aquatic Chronic 3; Skin Sens. 1B	H319; H412; H317	GHS07	
p-Anisaldehyde	Aquatic Chronic 3	H412		
(2E)-2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Eye Irrit. 2; Aquatic Chronic 2	H319; H411	GHS07; GHS09	
(Ethoxymethoxy)cyclododecane	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 2	H315; H317; H411	GHS07; GHS09	
3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	Aquatic Chronic 2	H411	GHS09	
3,7-Dimethylnona-1,6-dien-3-ol	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	
4-tert-Butylcyclohexyl acetate	Skin Sens. 1B	H317	GHS07	
Oxydipropanol	-----	-----	-----	
Allyl (3-methylbutoxy)acetate	Acute Tox. 4; Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1	H302; H330; H400; H410	GHS06; GHS09	M (acute) = 1 M (chronic) = 1
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	
[3R-(3α,3αβ,7β,8α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1	H304; H400; H410	GHS08; GHS09	M (acute) = 10 M (chronic) = 10
(Z)-3-hexenyl salicylate	Aquatic Acute 1; Aquatic Chronic 1	H400; H410	GHS09	M (acute) = 1 M (chronic) = 1
(Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one	Skin Sens. 1B; Aquatic Chronic 2	H317; H411	GHS07; GHS09	
3,7-Dimethyloctan-3-ol	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Benzyl acetate	Aquatic Chronic 3	H412		
Bornan-2-one	Flam. Sol. 2; Skin Irrit. 2; Eye Dam. 1; Acute Tox. 4; STOT SE 2	H228; H315; H318; H332; H371	GHS02; GHS05; GHS07; GHS08	
Citronellol	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	



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
Isoeugenol	Acute Tox. 4; Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1A; Eye Irrit. 2; Acute Tox. 4; STOT SE 3	H302; H312; H315; H317; H319; H332; H335	GHS07	H317 : C >= 0,01 %
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Skin Irrit. 2; Skin Sens. 1A; Aquatic Chronic 2	H315; H317; H411	GHS07; GHS09	

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 : Carbondioxide (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 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 skin and eyes. 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/m<sup>3</sup>):

Chemical name	Country	TWA 8 hour (mg/m <sup>3</sup> )	STEL 15 min (mg/m <sup>3</sup> )	Comments	Source
Oxydipropanol		67	-		MAC: DE
Benzyl acetate		5	-		MAC: LT



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Bornan-2-one		12	-		MAC BG, BE, EL, NO, etc
d-Limonene	GB	13 28	19 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-one	Inhalation				30 mg/m <sup>3</sup>
	Dermal			0,648 mg/kg bw/day	28,7 mg/kg bw/day
Linalool	Inhalation				24,58 mg/m <sup>3</sup>
	Dermal	3 mg/kg bw		3 mg/kg bw/day	3,5 mg/kg bw/day
Benzyl salicylate	Inhalation				7,8 mg/m <sup>3</sup>
	Dermal				2,21 mg/kg bw/day
p-Anisaldehyde	Dermal				3,33 mg/kg bw/day
	Inhalation				5,88 mg/m <sup>3</sup>
(2E)-2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Inhalation				21 mg/m <sup>3</sup>
	Dermal				6 mg/kg bw/day
(Ethoxymethoxy)cyclododecane	Inhalation				23,5 mg/m <sup>3</sup>
	Dermal				3,3 mg/kg bw/day
3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	Inhalation				92,75 mg/m <sup>3</sup>
	Dermal				6,67 mg/kg bw/day
3,7-Dimethylnona-1,6-dien-3-ol	Inhalation		18 mg/m <sup>3</sup>		3 mg/m <sup>3</sup>
	Dermal	1,6 mg/kg bw	5,5 mg/kg bw	1,6 mg/kg bw/day	2,7 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 <sup>3</sup>
Oxydipropanol	Dermal				84 mg/kg bw/day
	Inhalation				238 mg/m <sup>3</sup>
Allyl (3-methylbutoxy)acetate	Dermal				1,4 mg/kg bw/day
	Inhalation				4,93 mg/m <sup>3</sup>
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Inhalation				1,47 mg/m <sup>3</sup>
	Dermal			5,510 mg/kg bw/day	0,42 mg/kg bw/day
(Z)-3-hexenyl salicylate	Inhalation				1,59 mg/m <sup>3</sup>
	Dermal				0,9 mg/kg bw/day
3,7-Dimethyloctan-3-ol	Inhalation				11,14 mg/m <sup>3</sup>
	Dermal			0,190 mg/kg bw/day	3,16 mg/kg bw/day
Benzyl acetate	Inhalation				9 mg/m <sup>3</sup>
	Dermal				2,5 mg/kg bw/day
Bornan-2-one	Inhalation				17,632 mg/m <sup>3</sup>
	Dermal				10 mg/kg bw/day
Citronellol	Inhalation	10 mg/m <sup>3</sup>		10 mg/m <sup>3</sup>	161,6 mg/m <sup>3</sup>
	Dermal	2,950 mg/kg bw			327,4 mg/kg bw/day
d-Limonene	Inhalation				66,7 mg/m <sup>3</sup>
	Dermal				9,5 mg/kg bw/day
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Inhalation				2,71 mg/m <sup>3</sup>



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	Dermal			0,77 mg/kg bw/day
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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-one	Inhalation				9 mg/m3
	Dermal			0.380 mg/kg bw/day	17.2 mg/kg bw/day
Linalool	Oral				3 mg/kg bw/day
	Dermal	1.5 mg/kg bw		1.5 mg/kg bw/day	1.25 mg/kg bw/day
Benzyl salicylate	Inhalation				4.33 mg/m3
	Oral				2.49 mg/kg bw/day
	Inhalation				1,37 mg/m3
	Dermal				0,79 mg/kg bw/day
p-Anisaldehyde	Oral				0,79 mg/kg bw/day
	Inhalation				1,74 mg/m3
	Dermal				2 mg/kg bw/day
	Oral				1 mg/kg bw/day
(2E)-2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Inhalation				5,2 mg/m3
	Dermal				3 mg/kg bw/day
	Oral				3 mg/kg bw/day
(Ethoxymethoxy)cyclododecane	Inhalation				5,8 mg/m3
	Dermal				1,67 mg/kg bw/day
	Oral				1,67 mg/kg bw/day
3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	Inhalation				23,15 mg/m3
	Dermal				3,33 mg/kg bw/day
	Oral				3,33 mg/kg bw/day
3,7-Dimethylnona-1,6-dien-3-ol	Inhalation		4,4 mg/m3		0,74 mg/m3
	Dermal	1,6 mg/kg bw	2,7 mg/kg bw	1,6 mg/kg bw/day	1,4 mg/kg bw/day
	Oral		1,3 mg/kg bw		0,2 mg/kg bw/day
Linalyl acetate	Dermal	0,2362 mg/kg bw		0,2362 mg/kg bw/day	1,25 mg/kg bw/day
	Inhalation				0,68 mg/m3
	Oral				0,2 mg/kg bw/day
Oxydipropanol	Dermal				51 mg/kg bw/day
	Inhalation				70 mg/m3
	Oral				24 mg/kg bw/day
Allyl (3-methylbutoxy)acetate	Oral				0,5 mg/kg bw/day
	Dermal				0,87 mg/kg bw/day
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Inhalation				0,44 mg/m3
	Dermal			3,241 mg/kg bw/day	0,25 mg/kg bw/day
	Oral				0,25 mg/kg bw/day
(Z)-3-hexenyl salicylate	Inhalation				0,39 mg/m3
	Dermal				0,45 mg/kg bw/day
	Oral				0,23 mg/kg bw/day
3,7-Dimethyloctan-3-ol	Inhalation				2,75 mg/m3
	Dermal			0,190 mg/kg bw/day	1,58 mg/kg bw/day
	Oral				1,58 mg/kg bw/day





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Benzyl acetate	Inhalation Dermal Oral		6,25 mg/kg bw		2.2 mg/m <sup>3</sup> 1.3 mg/kg bw/day 1.3 mg/kg bw/day
Bornan-2-one	Inhalation Dermal Oral				4,348 mg/m <sup>3</sup> 5 mg/kg bw/day 5 mg/kg bw/day
Citronellol	Inhalation Dermal	10 mg/m <sup>3</sup> 2,950 mg/kg bw		10 mg/m <sup>3</sup>	47,8 mg/m <sup>3</sup> 196,4 mg/kg bw/day
d-Limonene	Oral Inhalation Dermal				13,8 mg/kg bw/day 16,6 mg/m <sup>3</sup> 4,8 mg/kg bw/day
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Oral Inhalation Dermal Oral				4,8 mg/kg bw/day 0,67 mg/m <sup>3</sup> 0,38 mg/kg bw/day 0,38 mg/kg bw/day

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-one	Water	0.0044 mg/l	0.00044 mg/l	
	Sediment	3.73 mg/kg	0.75 mg/kg	
	STP			10 mg/l
	Soil			2.7 mg/kg
Linalool	Oral			26.7 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
Benzyl salicylate	STP			10 mg/l
	Soil			0,327 mg/kg
	Oral			7,8 mg/kg food
	Water	0.001 mg/l	0 mg/l	
p-Anisaldehyde	Sediment	0.583 mg/kg	0.058 mg/kg	
	Intermittent water			0,01030 mg/l
	STP			10 mg/l
	Soil			1.41 mg/kg
(2E)-2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Oral			52.7 mg/kg food
	Water	0,013 mg/l	0,0013 mg/l	
	Sediment	0,06 mg/kg	0,006 mg/kg	
	Intermittent water			0,8111 mg/l
(Ethoxymethoxy)cyclododecane	STP			8,5 mg/l
	Soil			0,004 mg/kg
	Water	0,0088 mg/l	0,00088 mg/l	
	Sediment	1,05 mg/kg	0,105 mg/kg	
3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	STP			1 mg/l
	Soil			0,206 mg/kg
	Oral			20 mg/kg food
	Water	0,0016 mg/l	0,00016 mg/l	
3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	Sediment	2,35 mg/kg	0,235 mg/kg	
	Intermittent water			0,016 mg/l
	STP			100 mg/l
	Soil			0,468 mg/kg
3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	Oral			33,3 mg/kg food
	Water	0,0019 mg/l	0,00019 mg/l	





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3,7-Dimethylnona-1,6-dien-3-ol	Sediment	0,067 mg/kg	0,0067 mg/kg	
	Intermittent water			0,019 mg/l
	STP			1 mg/l
	Soil			0,0534 mg/kg
	Oral			33,3 mg/kg food
Linalyl acetate	Water	0,023 mg/l	0,0023 mg/l	
	Sediment	0,223 mg/kg	0,0223 mg/kg	
	Intermittent water			0,23 mg/l
	STP			10 mg/l
	Soil			0,031 mg/kg
4-tert-Butylcyclohexyl acetate	Oral			8,53 mg/kg food
	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
Oxydipropanol	Soil			0,115 mg/kg
	Water	0,0053 mg/l	0,00053 mg/l	
	Sediment	2,01 mg/kg	0,21 mg/kg	
	Intermittent water			0,053 mg/l
	STP			12,2 mg/l
Allyl (3-methylbutoxy)acetate	Soil			0,42 mg/kg
	Oral			66,76 mg/kg food
	Water	0,1 mg/l	0,01 mg/l	
	Sediment	0,238 mg/kg	0,0238 mg/kg	
	Intermittent water			1 mg/l
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	STP			1000 mg/l
	Soil			0,0253 mg/kg
	Oral			313 mg/kg food
	Water	0,00077 mg/l	0,00008 mg/l	
	Sediment	0,0089 mg/kg	0,0009 mg/kg	
(Z)-3-hexenyl salicylate	STP			0,0089 mg/l
	Soil			0,0013 mg/kg
	Water	0,004 mg/l	0 mg/l	
	Sediment	0,0991 mg/kg	0,00991 mg/kg	
	STP			10 mg/l
3,7-Dimethyloctan-3-ol	Soil			0,0174 mg/kg
	Oral			1,11 mg/kg food
	Water	0,00061 mg/l	0,000061 mg/l	
	Sediment	0,11 mg/kg	0,011 mg/kg	
	Intermittent water			0,0061 mg/l
Benzyl acetate	STP			10 mg/l
	Soil			0,0217 mg/kg
	Oral			40 mg/kg food
	Water	0,009 mg/l	0,001 mg/l	
	Sediment	0,082 mg/kg	0,008 mg/kg	
Bornan-2-one	Intermittent water			0,089 mg/l
	STP			450 mg/l
	Soil			0,011 mg/kg
	Water	0,018 mg/l	0,002 mg/l	
	Sediment	0,526 mg/kg	0,053 mg/kg	
3,7-Dimethyloctan-3-ol	Intermittent water			0,04 mg/l
	STP			8,55 mg/l
	Soil			0,094 mg/kg
Bornan-2-one	Water	0,0017 mg/l	0,00017 mg/l	
	Sediment	0,139 mg/kg	0,017 mg/kg	
	STP			1 mg/l

Citronellol	Soil			0,013 mg/kg
	Water	0.002 mg/l	0 mg/l	
	Sediment	0.026 mg/kg	0.003 mg/kg	
	Intermittent water			0,024 mg/l
d-Limonene	STP			580 mg/l
	Soil			0.004 mg/kg
	Water	0.014 mg/l	0.0014 mg/l	
	Sediment	3.85 mg/kg	0.385 mg/kg	
	STP			1.8 mg/l
(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Soil			0.763 mg/kg
	Oral			133 mg/kg food
	Water	0,00109 mg/l	0,0011 mg/l	
	Sediment	0,087 mg/kg	0,00867 mg/kg	
	STP			3,2 mg/l
	Soil			0,017 mg/kg
	Oral			6,67 mg/kg food

## 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. 0,13 mm. Indication of permeation breakthrough time: not known.
- Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### 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.
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: > 225 °C	
Boiling point/boiling range	: > 100 °C	



Melting point/melting range : Not known.  
Explosive properties : Not an explosive.  
Explosion limits (% in air) : Not known. Lower explosion limit in air (%): 0,7 ( Linalyl acetate )  
Upper explosion limit in air (%): 5,2 ( Linalool )  
Oxidising properties : Not applicable. Does not contain oxidizing substances.  
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 : > 1 (air = 1)  
Relative density (20°C) : 0,929 g/ml  
Particle characteristics : Not applicable. Liquid.

### 9.2. Other information

Other information : Not relevant.

## SECTION 10 STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity : See sub-sections below.

### 10.2. Chemical stability

Stability : Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

### 10.4. Conditions to avoid

Conditions to avoid : See section 7.

### 10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

### 10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

## SECTION 11 TOXICOLOGICAL INFORMATION

### 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: > 7,807 mg/l. Ingredients of unknown toxicity: 26 %. 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.



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**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: > 5000 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.
- Aspiration : Not expected to be an aspiration hazard. Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.
- 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-one	Skin irritation	Non-irritant	-----	Rabbit
	Skin sensitisation	6825 ug/cm2	OECD 429	Mouse
	LD50 (oral)	> 5000 mg/kg bw	-----	Rat
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rat
	Mutagenicity	Not mutagenic	OECD 471	-----
	NOAEL (development, oral)	480 mg/kg bw/d	OECD 414	Rat
	LC50 (inhalation) - estimate	> 22360 mg/m3	Read across	
	NOAEL (development, oral)	365 mg/kg bw/d	-----	Rat
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin sensitisation	12650 ug/cm2	OECD 429	Mouse
Linalool	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
	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
	Benzyl salicylate	NOAEL (fertility, oral)	158 mg/kg bw/d	OECD 421
Skin sensitisation		725 ug/cm2	OECD 429	Mouse
NOAEL (oral)		177 mg/kg bw/d	OECD 408	Rat
Skin irritation		Non-irritant	OECD 404	Rabbit
NOAEL (development, oral)		158 mg/kg bw/d	OECD 421	Rat
Mutagenicity		Negative	OECD 471	Salmonella typhimurium
Genotoxicity - in vitro		Not genotoxic	OECD 476	Chinese Hamster



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(2E)-2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Eye irritation	Moderately irritant	----	Rabbit
	LD50 (oral) - estimate	> 2000 mg/kg bw	Read across	
	LD50 (dermal) - estimate	> 2000 mg/kg bw	Read across	
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (fertility, oral)	> 300 mg/kg bw/d	OECD 422	Rat
	LD50 (oral)	> 2000 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
	Skin irritation	Slightly irritant	OECD 404	Rabbit
(Ethoxymethoxy)cyclododecane	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (oral)	981 mg/kg bw/d	OECD 408	Rat
	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rabbit
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster
	Skin irritation	Irritant	OECD 404	Rabbit
	Eye irritation	Non-irritant	OECD 405	Rabbit
	NOAEL (oral)	1000 mg/kg bw/d	OECD 422	Rat
	NOAEL (development, oral)	1000 mg/kg bw/d	OECD 422	Rat
3,7-Dimethylnona-1,6-dien-3-ol	NOAEL (fertility, oral)	1000 mg/kg bw/d	OECD 422	Rat
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	LD50 (oral)	5000 mg/kg bw	----	Rat
	LD50 (dermal)	> 5000 mg/kg bw	----	Rabbit
	NOAEL (oral) - estimate	117 mg/kg bw/d	Read across	Rat
	NOAEL (dermal) - estimate	250 mg/kg bw/d	Read across	Rat
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	Genotoxicity - estimate	Not genotoxic	Read across	
	Skin irritation	Irritant	----	Rabbit
	Eye irritation	Irritant	----	Rabbit
Linalyl acetate	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
	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
4-tert-Butylcyclohexyl acetate	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
	LD50 (oral)	5000 mg/kg bw	----	Rat
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit



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1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Eye irritation	Non-irritant		Rabbit
	Skin irritation	Non-irritant		Rabbit
	NOAEL (oral) - estimate	710 mg/kg bw/d	Read across	
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Mouse
	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
(Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one	NOAEL (fertility, oral)	115 mg/kg bw/d	OECD 421	Rat
	LD50 (oral) - estimate	> 5000 mg/kg bw	Read across	Rat
	Skin sensitisation - estimate	Sensitizing.	Read across	Mouse
	Mutagenicity - estimate	Not mutagenic	Read across	Salmonella typhimurium
	Genotoxicity - estimate	Not genotoxic	Read across	-----
	NOAEL (oral) - estimate	42 mg/kg bw/d	Read across	Rat
	NOAEL (fertility) - estimate	120 mg/kg.d	Read across	Rat
	NOAEL (development) - estimate	120 mg/kg.d	Read across	Rat
	LD50 (oral)	8270 mg/kg bw		Rat
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
3,7-Dimethyloctan-3-ol	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	NOAEL (oral)	316 mg/kg bw/d	OECD 408	Rat
	NOAEL (dermal) - estimate	250 mg/kg bw/d	Read across	Rat
	NOAEL (fertility) - estimate	365 mg/kg.d	Read across	Rat
	NOAEL (development, oral)	1000 mg/kg bw/d	OECD 414	Rat
	Skin irritation	Irritant		Rabbit
	Eye irritation	Non-irritant		Rabbit
	LC50 (inhalation) - estimate	> 5000 mg/m3		Rat
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
Citronellol	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
	NOAEL (developmental toxicity, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	Skin irritation	Moderately irritant	Patch test	Human
d-Limonene	Eye irritation	Moderately irritant		Rabbit
	Genotoxicity - in vivo	> 2000 mg/kg bw/d		Rat



Isoeugenol	NOEL (carcinogenicity, oral)	> 300 mg/kg bw/d	OECD 451	Rat	
	Eye irritation	Non-irritant	OECD 405	Rabbit	
	Mutagenicity	Negative	OECD 471		
	Skin sensitisation	5500 ug/cm2	OECD 429	Mouse	
	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	
	SKIN sensitisation	498 ug/cm2	OECD 429	Mouse	
	Skin irritation	Moderately irritant	----	Human	
	Skin irritation	Severely irritant	----	Rabbit	
	NOEL (carcinogenicity, oral)	Not carcinogenic	----	Rat	
	Mutagenicity	Negative	----	Salmonella typhimurium	
	(E)-1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	LC50 (inhalation) - estimate	1500 mg/m3		
		LD50 (dermal) - estimate	1912 mg/kg bw		
LD50 (oral)		1560 mg/kg bw	----	Rat	
LD50 (dermal) - estimate		> 2150 mg/kg bw	Read across	Rat	
LD50 (oral)		> 2000 mg/kg bw	----	Rat	
Skin irritation		Irritant	----	----	
Eye irritation - estimate		Non-irritant	Read across	Rabbit	
Skin sensitisation		305 ug/cm2	OECD 429	Mouse	
NOAEL (oral) - estimate		30 mg/kg bw/d	Read across	Rat	
NOAEL (development) - estimate		400 mg/kg.d	Read across	Rat	
Mutagenicity		Negative	OECD 471	Salmonella typhimurium	
Genotoxicity - in vitro	Not genotoxic	OECD 476	----		

### 11.2. Information on other hazards

Endocrine disrupting properties : Not applicable.  
Other information : Not applicable.

## SECTION 12 ECOLOGICAL INFORMATION \*

### 12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Toxic to aquatic organisms. Calculated LC50 (fish): 2 mg/l. Calculated EC50 (waterflea): 1 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 : Not applicable.

**12.7. Other adverse effects**

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-one	EC50 (waterflea)	1,38 mg/l	OECD 202	-----	
	IC50 (algae)	> 2,6 mg/l	OECD 201	-----	
	LC50 (fish)	1,3 mg/l	OECD 203	-----	
	Log P(ow)	5,23			
	BCF	600			
(2E)-2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	IC50 (algae)	2,5 mg/l		Pseudokirchnerella subcapitata	
	LC50 (fish)	1,1 mg/l	-----	Lepomis macrochirus	
	Ultimate aerobic biodegradation (%)	5 %	OECD 301 D		
	EC50 (waterflea)	1,34 mg/l	OECD 202	Daphnia magna	
	Log P(ow)	4,44			
(Ethoxymethoxy)cyclododecane	LC50 (fish)	1,9 mg/l	OECD 203	Brachydanio rerio	
	EC50 (waterflea)	1,6 mg/l	OECD 202	Daphnia magna	
	NOEC (fish)	1,3 mg/l	OECD 203	Brachydanio rerio	
	NOEC (waterflea) - acute	0,68 mg/l	OECD 202	Daphnia magna	
	IC50 (algae)	> 2 mg/l	OECD 201	Pseudokirchnerella subcapitata	
	Ultimate aerobic biodegradation (%)	< 60	OECD 302 C		
	Log P(ow)	5,4			
	BCF	530			
	3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	LC50 (fish)	1,7 mg/l	OECD 203	Pimephales promelas
		NOEC (fish)	0,96 mg/l	OECD 203	Pimephales promelas
EC50 (waterflea)		1,1 mg/l	OECD 202	Daphnia magna	
NOEC (waterflea) - acute		0,32 mg/l	OECD 202	Daphnia magna	
Ultimate aerobic biodegradation (%)		66 %	OECD 301 F		
Log P(ow)		4,2			
BCF		366			
Allyl (3-methylbutoxy)acetate	IC50 (algae) - estimate	2,06 mg/l	-----	-----	
	LC50 (fish) - estimate	0,77 mg/l	-----	-----	
	EC50 (waterflea) - estimate	5,09 mg/l	-----	-----	
	Ultimate aerobic biodegradation (%)	> 60 %	OECD 301 B		



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[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	Log P(ow)	2,72		
	LC50 (fish) - estimate	0,055 mg/l	---	---
(Z)-3-hexenyl salicylate	EC50 (waterflea) - estimate	> 0,01 mg/l		
	Log P(ow)	6,38		
	Ultimate aerobic biodegradation (%)	89 %	OECD 301 F	
	LC50 (fish) - estimate	1,13 mg/l		Brachydanio rerio
	EC50 (waterflea)	3,7 mg/l	OECD 202	Daphnia magna
	LC50 (algae)	0,61 mg/l	OECD 201	Desmodesmus subspicatus
	Log P(ow)	4,57		

## 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. : UN 3082

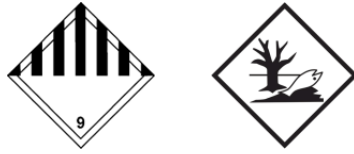
### 14.2. UN proper shipping name

- Transport name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one ; [3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one )
- Transport name (IMDG, IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one ; [3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one )

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

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

- Class : 9
- Classification code : M6
- Packaging group : III
- Danger label : 9 + the "environmentally hazardous substance" mark.
- Tunnel restriction : (-)
- code



Other information : Not intended for carriage by tank-vessels on inland waterways. This product is not regulated as a dangerous good when transported in sizes of <= 5 L or <= 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 (Special provisions 375).

**IMDG (sea)**

Class : 9  
Packaging group : III  
EmS (fire / spill) : F - A / S - F  
Marine pollutant : Yes  
Other information : This product is not regulated as a dangerous good when transported in sizes of <= 5 L or <= 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 (IMDG code 37-14, 2.10.2.7).

**IATA (air)**

Class : 9  
ERG code : 9L  
Packaging group : III

**14.6. Special precautions for user**

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the transport of this product.

**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).

**15.2. Chemical safety assessment**

Chemical safety assessment : Not applicable.

**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.

Changed or new information with regard to the previous release is indicated with an asterisk (\*).



List of abbreviations and acronyms that could be (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
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	: International Bulk Chemical Code
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
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 2	: Calculation method.

Full text of hazard classes mentioned in section 3:

Flam. Liq. 3	: Flammable liquid, category 3.
Flam. Sol. 1	: Flammable solid, category 1.
Acute Tox. 2	: Acute toxicity, Hazard Category 2.
Acute Tox. 4	: Acute toxicity, category 4.
Skin Irrit. 2	: Skin irritation, category 2.
Eye Dam. 1	: Serious eye damage, category 1.
Eye Irrit. 2	: Eye irritation, category 2.
Skin Sens. 1/1A/1B	: Skin sensitization, category 1/1A/1B.
STOT SE 2	: Specific target organ toxicity after single exposure, category 2.
STOT SE 3	: Specific target organ toxicity after single exposure, category 3.
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.
H228	Flammable solid.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.



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According to Regulation (EU) No 2020/878

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H330	Fatal if inhaled.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H371	May cause damage to organs.
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.

Advice on any training appropriate for workers: none.

Number format : "," used as decimal separator.

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End of safety data sheet.