



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

1.1. Product identifier

Product name : LAFITA QUARTIER LATIN
Product code : DOV-014

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

Application : SU21 Consumer product. PC3 Air care products. Airfreshener.

1.3. Details of the supplier of the safety data sheet

Supplier : Dovox B.V.
Computerweg 3
3542 DP UTRECHT, The Netherlands
Telephone : +31-168-331711
Fax : +31-10-2270065
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 : +31-168-331711 (During office hours only)
EMERGENCY TELEPHONE NUMBER (for DOCTORS only):
National Poisons Information Service +44-844 892 0111 (24/7)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification : Skin irritation, category 2. Skin sensitization, category 1. Serious eye damage, category 1. (1272/2008/EC) Hazardous to the aquatic environment — Chronic category 2.
Human health hazards : Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.
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 : Danger

H- and P-phrases : H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 hands eyes Wear protective gloves and eye protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.



P302+P352 IF ON SKIN: Wash with plenty of water/soap.
P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
+ P338 lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling

: Contains: d-Limonene ; Linalool ; Pin-2(3)-ene ;
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
; (Ethoxymethoxy)cyclododecane ; Octahydro-2H-1-benzopyran-2-one ;
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde ; Geraniol ; Citronellol ; Butylphenyl
methylpropional ; 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one ; Coumarin
; 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde ; 2-(2,2,7,7-tetramethyltricyclo [6.2.1.0(1,6)]
undec-5(4)-en-5-yl) propan-1-ol ; Cineole ; 1-(5,5-dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one
; 1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one ; Pentadecan-15-olide
; 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one ;
3-(4-tert-butylphenyl)propionaldehyde ; Allyl 3-cyclohexylpropionate ;
(Z)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one ; Citral .

2.3. Other hazards

Other information : The product does not need to carry all label elements required by Article 17 of Regulation (EC) No 1272/2008 on the basis of Annex I, point 1.5.2.1. Exemption for packages where the contents do not exceed 125 ml. 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.
Benzyl benzoate	10 - < 25	120-51-4	204-402-9		01-2119976371-33
2,6-Dimethyloct-7-en-2-ol	5 - < 10	18479-58-8	242-362-4		01-2119457274-37
2-tert-Butylcyclohexyl acetate	5 - < 10	88-41-5	201-828-7		
d-Limonene	5 - < 10	5989-27-5	227-813-5		01-2119529223-47
Octahydro-2H-1-benzopyran-2-one	3 - < 10	4430-31-3	224-623-4		
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	2,5 - < 5	54464-57-2	259-174-3		01-2119489989-04
Linalool	1 - < 5	78-70-6	201-134-4		01-2119474016-42
Allyl (cyclohexyloxy) acetate (Tetramiran)	1 - < 5	68901-15-5	272-657-3		
Alpha, beta,2,2,3-pentamethylcyclopent-3-ene-1-butanol	1 - < 5	65113-99-7	265-453-0		
Pin-2(3)-ene	1 - < 5	80-56-8	201-291-9		01-2119519223-49
Linalyl acetate	1 - < 5	115-95-7	204-116-4		01-2119454789-19
3,7-Dimethylnona-1,6-dien-3-ol	1 - < 5	10339-55-6	233-732-6		01-2119969272-32
(Ethoxymethoxy)cyclododecane	1 - < 5	58567-11-6	261-332-1		01-2119971571-34
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1 - < 5	1205-17-0	214-881-6		
6,6-dimethoxy-2,5,5-trimethylhex-2-ene	1 - < 5	67674-46-8	266-885-2		
1-[(2-tert-Butyl)cyclohexyloxy]-2-butanol	1 - < 5	139504-68-0	412-300-2		01-0000015959-52
Coumarin	1 - < 5	91-64-5	202-086-7		01-2119949300-45



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Citronellol	1 - < 5	106-22-9	203-375-0	01-2119453995-23
Geraniol	1 - < 3	106-24-1	203-377-1	01-2119552430-49
2-(4-tert-butylbenzyl)propionaldehyde	1 - < 3	80-54-6	201-289-8	01-2119485965-18
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	1 - < 2,5	127-51-5	204-846-3	
2-(2,2,7,7-tetramethyltricyclo[6.2.1.0(1,6)] undec-5(4)-en-5-yl)propan-1-ol	0,25 - < 1	929625-08-1	695-374-0	
(Z)-3-hexenyl salicylate	0,25 - < 1	65405-77-8	265-745-8	01-2119987320-37
(E)-oxacyclohexadec-12-en-2-one,	0,25 - < 1	111879-80-2	422-320-3	
(E)-oxacyclohexadec-13-en-2-one				
(+/-) trans-3,3-Dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol	0,25 - < 1	107898-54-4	411-580-3	01-0000000316-81
Allyl 3-cyclohexylpropionate	0,25 - < 1	2705-87-5	220-292-5	01-2119976355-27
2,4-Dimethylcyclohex-3-ene-1-carbaldehyde	0,1 - < 1	68039-49-6	268-264-1	
Cineole	0,1 - < 1	470-82-6	207-431-5	01-2119967772-24
1-(5,5-dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one	0,1 - < 1	56973-85-4	260-486-7	
1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	0,1 - < 1	23696-85-7	245-833-2	
Pentadecan-15-olide	0,1 - < 1	106-02-5	203-354-6	01-2119987323-31
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
3-(4-tert-butylphenyl)propionaldehyde	0,1 - < 1	18127-01-0	242-016-2	01-2119983533-30
4-methyl-3-decen-5-ol	0,1 - < 1	81782-77-6	279-815-0	01-2119983528-21
(Z)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	0,1 - < 1	23726-94-5	245-845-8	
Citral	0,1 - < 1	5392-40-5	226-394-6	01-2119462829-23
Bornan-2-one	0,1 - < 1	76-22-2	200-945-0	

Occupational exposure limit(s), if relevant, are listed in section 8.

Substance name	Hazard Class	H-phrases	Pictograms	
Benzyl benzoate	Acute Tox. 4; Aquatic Acute 1; Aquatic chronic 2	H302; H400; H411	GHS07; GHS09	M (acute) = 1
2,6-Dimethyloct-7-en-2-ol	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
2-tert-Butylcyclohexyl acetate	Aquatic Chronic 2	H411	GHS09	
d-Limonene	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H226; H304; H315; H317; H400; H410	GHS02; GHS07; GHS08; GHS09	M (acute) = 1
Octahydro-2H-1-benzopyran-2-one	Eye Dam. 1	H318	GHS05	
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; Eye Irrit. 2; Skin Sens. 1B	H315; H317; H319	GHS07	
Allyl (cyclohexyloxy) acetate (Tetramiran)	Acute Tox. 4; Skin Irrit. 2; Aquatic Chronic 3	H302; H315; H412	GHS07	
Alpha, beta,2,2,3-pentamethylcyclopent-3-ene-1-butanol	Eye Irrit. 2; Aquatic Chronic 2	H319; H411	GHS07; GHS09	
Pin-2(3)-ene	Flam. Liq. 3; Skin Sens. 1; Asp. Tox. 1; Skin irrit 2	H226; H317; H315; H304	GHS07; GHS08; GHS02	



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Linalyl acetate	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
3,7-Dimethylnona-1,6-dien-3-ol (Ethoxymethoxy)cyclododecane	Skin Irrit. 2; Eye Irrit. 2 Skin Irrit. 2; Skin Sens. 1; Aquatic Chronic 2	H315; H319 H315; H317; H411	GHS07 GHS07; GHS09	
Alpha-methyl-1,3-benzodioxole-5- propionaldehyde	Skin Sens. 1; Aquatic Chronic 2	H317; H411	GHS07; GHS09	
6,6-dimethoxy-2,5,5-trimethylhex-2-ene	Skin Irrit. 2; Eye Irrit. 2; Aquatic Chronic 3	H315; H319; H412	GHS07	
1-[(2-tert-Butyl)cyclohexyloxy]-2- butanol	Eye Irrit. 2; Aquatic Chronic 2	H319; H411	GHS07; GHS09	
Coumarin	Acute Tox. 4; Skin Sens. 1B; Aquatic Chronic 3	H302; H317; H412	GHS07	
Citronellol	Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1B	H319; H317; H315	GHS07	
Geraniol	Skin Sens. 1; Eye Dam. 1; Skin Irrit. 2	H317; H318; H315	GHS05; GHS07	
2-(4-tert-butylbenzyl)propionaldehyde	Aquatic Chronic 2; Skin Irrit. 2; Skin Sens. 1B; Acute Tox. 4; Repr. 2	H302; H315; H317; H411; H361f	GHS07; GHS08; GHS09	
3-Methyl-4-(2,6,6-trimethyl-2- cyclohexen-1-yl)-3-buten-2-one	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 2	H315; H317; H411	GHS07; GHS09	
2-(2,2,7,7-tetramethyltricyclo [6.2.1.0(1,6)] undec-5(4)-en-5-yl) propan-1-ol	Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H315; H317; H400; H410	GHS07; GHS09	
(Z)-3-hexenyl salicylate	Aquatic Acute 1; Aquatic Chronic 1	H400; H410	GHS09	M (acute) = 1 M (chronic) = 1
(E)-oxacyclohexadec-12-en-2-one, (E)-oxacyclohexadec-13-en-2-one	Aquatic Acute 1; Aquatic Chronic 1	H410	GHS09	M (acute) = 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
Allyl 3-cyclohexylpropionate	Acute Tox. 4; Skin Sens. 1; Aquatic. Acute 1; Aquatic Chronic 1	H302; H312; H332; H317; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1
2,4-Dimethylcyclohex-3-ene-1- carbaldehyde	Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1; Aquatic Chronic 3	H319; H315; H317; H412	GHS07	
Cineole	Flam. Liq. 3; Skin Sens. 1B	H226; H317	GHS02; GHS07	
1-(5,5-dimethyl-1-cyclohexen-1-yl)pent- 4-en-1-one	Skin Sens. 1	H317	GHS07	
1-(2,6,6-trimethyl-1,3-cyclohexadien-1- yl)-2-buten-1-one	Skin Sens. 1; Aquatic Chronic 2	H317; H411	GHS07; GHS09	
Pentadecan-15-olide	Skin Sens. 1B; Aquatic Chronic 2	H317; H411	GHS07; GHS09	
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	
3-(4-tert-butylphenyl)propionaldehyde	Skin Irrit. 2; Skin Sens. 1; Repr. 2; STOT RE 2; Aquatic Chronic 3	H315; H317; H361f; H373; H412	GHS07; GHS08	
4-methyl-3-decen-5-ol	Aquatic Acute 1	H400	GHS09	M (acute) = 1
(Z)-1-(2,6,6-trimethyl-2-cyclohexen-1- yl)-2-buten-1-one	Acute Tox. 4; Skin Sens. 1B	H302; H317	GHS07	



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Citral	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Bornan-2-one	Flam. Sol. 2; Acute Tox. 4; STOT SE 2	H228; H332; H371	GHS02; GHS07; GHS08	

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 for at least 15 minutes. Remove contact lenses. Consult a doctor immediately.
- 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.
- Eye contact : Strongly irritant. Irreversible effects on the eye/serious damage to eyes. May cause redness and severe 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.

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 (< 35 °C). 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
d-Limonene		110	-	MAC: DE, CH, NL
Pin-2(3)-ene		113	-	
Bornan-2-one	GB	13	19	
Bornan-2-one		12	-	

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
Benzyl benzoate	Dermal				2,6 mg/kg bw/day



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2,6-Dimethyloct-7-en-2-ol	Inhalation		102 mg/m3		5,1 mg/m3
	Dermal				20,8 mg/kg bw/day
d-Limonene	Inhalation				73,5 mg/m3
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Inhalation				33,3 mg/m3
	Dermal	0,1011 mg/kg bw			1,73 mg/kg bw/day
Linalool	Inhalation				1,76 mg/m3
	Dermal		5 mg/kg bw		2,5 mg/kg bw/day
Pin-2(3)-ene	Inhalation		16,5 mg/m3		2,8 mg/m3
Linalyl acetate	Inhalation				5,98 mg/m3
	Dermal	0,8 mg/kg bw		0,8 mg/kg bw/day	2,5 mg/kg bw/day
3,7-Dimethylnona-1,6-dien-3-ol	Inhalation				2,75 mg/m3
	Dermal	16 mg/kg bw	5,5 mg/kg bw	16 mg/kg bw/day	2,7 mg/kg bw/day
(Ethoxymethoxy)cyclododecane	Inhalation		18 mg/m3		3 mg/m3
1-[(2-tert-Butyl)cyclohexyloxy]-2-butanol	Dermal				3,3 mg/kg bw/day
	Inhalation				23,5 mg/m3
	Dermal				5 mg/kg bw/day
Coumarin	Inhalation				17,6 mg/m3
	Dermal				0,79 mg/kg bw/day
Citronellol	Inhalation				6,78 mg/m3
	Dermal				45,8 mg/kg bw/day
Geraniol	Inhalation				161,6 mg/m3
	Dermal				12,5 mg/kg bw/day
2-(4-tert-butylbenzyl)propionaldehyde	Inhalation				161,6 mg/m3
	Dermal	0,41 mg/kg bw	20 mg/kg bw		3,33 mg/kg bw/day
(Z)-3-hexenyl salicylate	Inhalation	0,29 mg/m3	0,29 mg/m3	0,048 mg/m3	0,048 mg/m3
	Dermal				0,9 mg/kg bw/day
Allyl 3-cyclohexylpropionate	Inhalation				1,59 mg/m3
	Dermal				4,3 mg/kg bw/day
Cineole	Inhalation				15 mg/m3
	Dermal				2 mg/kg bw/day
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Inhalation			5,510 mg/kg bw/day	7,05 mg/m3
	Dermal				0,42 mg/kg bw/day
3-(4-tert-butylphenyl)propionaldehyde	Inhalation				1,47 mg/m3
	Dermal			0,0007 mg/kg bw/day	1,25 mg/kg bw/day
4-methyl-3-decen-5-ol	Inhalation				0,44 mg/m3
	Dermal			0,05 mg/kg bw/day	0,5 mg/kg bw/day
Citral	Inhalation				0,88 mg/m3
	Dermal				1,7 mg/kg bw/day
	Inhalation				9 mg/m3

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
Benzyl benzoate	Dermal				1,3 mg/kg bw/day
	Inhalation		25 mg/m3		1,25 mg/m3
	Oral		78 mg/kg bw		0,4 mg/kg bw/day
2,6-Dimethyloct-7-en-2-ol	Dermal				12,5 mg/kg bw/day
	Inhalation				21,7 mg/m3
	Oral				12,5 mg/kg bw/day



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d-Limonene	Inhalation				8,33 mg/m3
	Oral				4,76 mg/kg bw/day
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Dermal	0,0506 mg/kg bw			0,86 mg/kg bw/day
	Inhalation				0,43 mg/m3
	Oral				0,25 mg/kg bw/day
Linalool	Dermal		2,5 mg/kg bw	15 mg/kg bw/day	1,25 mg/kg bw/day
	Inhalation		4,1 mg/m3		0,7 mg/m3
	Oral		1,2 mg/kg bw		0,2 mg/kg bw/day
Pin-2(3)-ene	Inhalation				1,06 mg/m3
	Oral				0,31 mg/kg bw/day
Linalyl acetate	Dermal	0,8 mg/kg bw		0,8 mg/kg bw/day	1,25 mg/kg bw/day
	Inhalation				0,68 mg/m3
	Oral				0,2 mg/kg bw/day
3,7-Dimethylnona-1,6-dien-3-ol	Dermal	16 mg/kg bw	2,7 mg/kg bw	16 mg/kg bw/day	1,4 mg/kg bw/day
	Inhalation		4,4 mg/m3		0,74 mg/m3
	Oral		1,3 mg/kg bw		0,2 mg/kg bw/day
(Ethoxymethoxy)cyclododecane	Dermal				1,67 mg/kg bw/day
	Inhalation				5,8 mg/m3
	Oral				1,67 mg/kg bw/day
1-[(2-tert-Butyl)cyclohexyloxy]-2-butanol	Dermal				2,5 mg/kg bw/day
	Inhalation				4,35 mg/m3
	Oral				2,5 mg/kg bw/day
Coumarin	Dermal				0,39 mg/kg bw/day
	Inhalation				1,69 mg/m3
	Oral				0,39 mg/kg bw/day
Citronellol	Dermal				27,5 mg/kg bw/day
	Inhalation				47,8 mg/m3
	Oral				13,75 mg/kg bw/day
Geraniol	Dermal				7,5 mg/kg bw/day
	Inhalation				47,8 mg/m3
	Oral				13,75 mg/kg bw/day
2-(4-tert-butylbenzyl)propionaldehyde	Dermal	0,41 mg/kg bw	20 mg/kg bw		1,67 mg/kg bw/day
	Inhalation	0,07 mg/m3	0,07 mg/m3	0,012 mg/m3	0,012 mg/m3
	Oral		0,041 mg/kg bw		0,007 mg/kg bw/day
(Z)-3-hexenyl salicylate	Dermal				0,45 mg/kg bw/day
	Inhalation				0,39 mg/m3
	Oral				0,23 mg/kg bw/day
Allyl 3-cyclohexylpropionate	Dermal				2,1 mg/kg bw/day
	Inhalation				3,7 mg/m3
	Oral				2,1 mg/kg bw/day
Cineole	Dermal				1 mg/kg bw/day
	Inhalation				1,74 mg/m3
	Oral				600 mg/kg bw/day
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Dermal			3,241 mg/kg bw/day	0,25 mg/kg bw/day
	Inhalation				0,44 mg/m3
	Oral				0,25 mg/kg bw/day
3-(4-tert-butylphenyl)propionaldehyde	Dermal			0,0004 mg/kg bw/day	0,625 mg/kg bw/day
	Inhalation				0,11 mg/m3
	Oral				0,0625 mg/kg bw/day



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4-methyl-3-decen-5-ol Citral	Dermal Inhalation Oral Dermal Inhalation Oral			0,02 mg/kg bw/day 0,22 mg/m3 0,06 mg/kg bw/day 1 mg/kg bw/day 2,7 mg/m3 0,6 mg/kg bw/day
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Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Benzyl benzoate	Water	0,017 mg/l	0,002 mg/l	
	Sediment	10,66 mg/kg	1,07 mg/kg	
	STP			100 mg/l
	Soil			2,12 mg/kg
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
d-Limonene	Oral			111 mg/kg food
	Water	0,0054 mg/l	0,0005 mg/l	
	Sediment	1,32 mg/kg	0,13 mg/kg	
	STP			1,8 mg/l
Linalool	Soil			0,262 mg/kg
	Oral			3,33 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
Pin-2(3)-ene	STP			10 mg/l
	Soil			0,327 mg/kg
	Oral			7,8 mg/kg food
	Water	0,004 mg/l	0,0004 mg/l	
	Sediment	1,033 mg/kg	0,103 mg/kg	
Linalyl acetate	STP			3,26 mg/l
	Soil			0,539 mg/kg
	Oral			1,35 mg/kg food
	Water	0,011 mg/l	0,0011 mg/l	
	Sediment	0,609 mg/kg	0,0609 mg/kg	
3,7-Dimethylnona-1,6-dien-3-ol	Intermittent water			0,11 mg/l
	STP			10 mg/l
	Soil			0,115 mg/kg
	Water	0,023 mg/l	0,0023 mg/l	
	Sediment	0,223 mg/kg	0,0223 mg/kg	
(Ethoxymethoxy)cyclododecane	Intermittent water			0,23 mg/l
	STP			10 mg/l
	Soil			0,031 mg/kg
	Oral			8,53 mg/kg food
	Water	0,0016 mg/l	0,00016 mg/l	
1-[(2-tert-Butyl)cyclohexyloxy]-2-butanol	Sediment	2,35 mg/kg	0,235 mg/kg	
	Intermittent water			0,016 mg/l
	STP			100 mg/l
	Soil			0,468 mg/kg
	Oral			33,3 mg/kg food
1-[(2-tert-Butyl)cyclohexyloxy]-2-butanol	Water	0,022 mg/l	0,002 mg/l	
	Sediment	0,218 mg/kg	0,022 mg/kg	



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Coumarin	Intermittent water			0,041 mg/l
	STP			1 mg/l
	Soil			2 mg/kg
	Oral			4,67 mg/kg food
	Water	0,019 mg/l	0,0019 mg/l	
Citronellol	Sediment	0,15 mg/kg	0,015 mg/kg	
	Intermittent water			0,0142 mg/l
	STP			6,4 mg/l
	Soil			0,018 mg/kg
	Oral			30,7 mg/kg food
Geraniol	Water	0,0024 mg/l	0,00024 mg/l	
	Sediment	0,0256 mg/kg	0,00256 mg/kg	
	Intermittent water			0,024 mg/l
	STP			580 mg/l
	Soil			0,00371 mg/kg
2-(4-tert-butylbenzyl)propionaldehyde	Water	0,0108 mg/l	0,0010 mg/l	
	Sediment	0,115 mg/kg	0,0115 mg/kg	
	Intermittent water			0,108 mg/l
	STP			0,7 mg/l
	Soil			0,0167 mg/kg
(Z)-3-hexenyl salicylate	Water	0,0020 mg/l	0,0002 mg/l	
	Sediment	0,0584 mg/kg	0,0058 mg/kg	
	Intermittent water			0,0204 mg/l
	STP			1,049 mg/l
	Soil			0,0463 mg/kg
Allyl 3-cyclohexylpropionate	Water	0,00061 mg/l	0,000061 mg/l	
	Sediment	0,11 mg/kg	0,011 mg/kg	
	Intermittent water			0,0061 mg/l
	STP			10 mg/l
	Soil			0,0217 mg/kg
Cineole	Oral			40 mg/kg food
	Water	0,0001 mg/l	0,0001 mg/l	
	Sediment	0,0241 mg/kg	0,0024 mg/kg	
	Intermittent water			0,0013 mg/l
	STP			0,2 mg/l
Pentadecan-15-olide	Soil			0,0047 mg/kg
	Water	0,057 mg/l	0,0057 mg/l	
	Sediment	1,425 mg/kg	0,1425 mg/kg	
	Intermittent water			0,57 mg/l
	STP			10 mg/l
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Soil			0,25 mg/kg
	Oral			133 mg/kg food
	Water	0,0027 mg/l	0,00027 mg/l	
	Sediment	21 mg/kg	4,2 mg/kg	
	STP			10 mg/l
3-(4-tert-butylphenyl)propionaldehyde	Soil			10 mg/kg
	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
3-(4-tert-butylphenyl)propionaldehyde	Oral			1,11 mg/kg food
	Water	0,00105 mg/l	0,0001 mg/l	
	Sediment	0,1 mg/kg	0,0104 mg/kg	
	Intermittent water			0,0105 mg/l
	STP			3,16 mg/l

Citral	Soil			0,2004 mg/kg
	Oral			5,6 mg/kg food
	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

8.2. Exposure controls

Engineering measures : Comply with standard precautionary measures for working with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to exposure to carcinogens or mutagens at work.

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: 1 hour.

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: 1 hour.

Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	: 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 known.	
Flash point	: > 100 °C	
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: > 225 °C	
Boiling point/boiling range	: > 100 °C	
Melting point/melting range	: < 0 °C	
Explosive properties	: None known.	Does not contain explosives.
Explosion limits (% in air)	: Not known.	Lower explosion limit in air (%): 0,5 (Butylphenyl methylpropional)
	:	Upper explosion limit in air (%): 6,5 d-Limonene
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.	
Viscosity (20°C)	: Not applicable.	
Viscosity (40°C)	: Not relevant.	The product contains < 10% substances having an aspiration hazard.



Vapour pressure (20°C) : Not known.
Vapour density (20°C) : > 1 (air = 1)
Relative density (20°C) : Not known.
Evaporation rate : Not known. (n-butyl acetate = 1)

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 toxicological effects

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 72 %. ATE: > 5 mg/l. 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: > 4582 mg/kg.bw. Ingredients of unknown toxicity: 13 %. ATE: > 2000 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 : Risk of serious damage to eyes.

Ingestion



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- Acute toxicity : Calculated LD50: > 3062 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 : Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met. Impregnated material with minimal content: Ingestion is unlikely to occur.
- 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 classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal	
2,6-Dimethyloct-7-en-2-ol	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	
	d-Limonene	Genotoxicity - in vivo	> 2000 mg/kg bw/d		Rat
		NOEL (carcinogenicity, oral)	> 300 mg/kg bw/d	OECD 451	Rat
		Eye irritation	Non-irritant	OECD 405	Rabbit
		Mutagenicity	Negative	OECD 471	
		Skin sensitisation	10075 ug/cm2	OECD 429	Mouse
NOAEL (development, oral)		600 mg/kg bw/d		Rat	
Skin irritation		Irritant	-----	-----	
NOAEL (oral)		30 mg/kg bw/d		Rat	
NOEL (oral)		5 mg/kg bw/d	-----	Rat	
LD50 (dermal)		> 2000 mg/kg bw	-----	Rabbit	
LD50 (oral)		4400 mg/kg bw	-----	Rat	
Genotoxicity - in vitro		Not genotoxic			
LD50 (oral)		3900 mg/kg bw	-----	Rat	
LD50 (dermal)		3500 mg/kg bw	-----	Rabbit	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Mutagenicity	Not mutagenic	OECD 471	-----	
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rat	
	LD50 (oral)	> 5000 mg/kg bw	-----	Rat	
	Skin sensitisation	6825 ug/cm2	OECD 429	Mouse	
	NOAEL (development, oral)	480 mg/kg bw/d	OECD 414	Rat	
	Skin irritation	Non-irritant	-----	Rabbit	
	NOAEL (oral)	117 mg/kg bw/d	-----	Rat	
	LD50 (oral)	2790 mg/kg bw	-----	Rat	
	Skin irritation	Mildly irritant	-----	Human	
	LD50 (dermal)	5610 mg/kg bw	-----	Rabbit	
	Genotoxicity - in vivo	Not genotoxic	OECD 475	Mouse	
	Linalool				



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Allyl (cyclohexyloxy) acetate (Tetramiran) Pin-2(3)-ene	Skin irritation	Irritant	OECD 404	Rabbit	
	NOAEL (fertility, oral)	500 mg/kg bw/d		Rat	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium	
	Skin sensitisation	12650 ug/cm2	OECD 429	Mouse	
	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat	
	Eye irritation	Non-irritant	OECD 405	Rabbit	
	NOAEL (development, oral)	365 mg/kg bw/d	-----	Rat	
	LD50 (oral)	1040 mg/kg bw		Rat	
	Linalyl acetate	Skin sensitisation	Sensitizing.	-----	Guinea pig
		Skin irritation	Non-irritant	-----	Human
Skin irritation		Moderately irritant	-----	Rabbit	
LD50 (dermal)		> 5000 mg/kg bw	-----	Rabbit	
Mutagenicity		Not mutagenic	-----	Salmonella typhimurium	
Eye irritation - estimate		Moderately irritant	Read across	Rabbit	
Genotoxicity - estimate		Not genotoxic	Read across		
NOAEL (development) - estimate		250 mg/kg.d	Read across	Rat	
LD50 (oral)		3700 mg/kg bw	-----	Rat	
NOAEL (inhalation)		170 mg/m3	OECD 413	Rat	
3,7-Dimethylnona-1,6-dien-3-ol	NOAEL (oral) - estimate	250 mg/kg bw/d	Read across		
	LC50 (inhalation) - estimate	> 5000 mg/m3	-----	Rat	
	NOAEL (development, oral)	1000 mg/kg bw/d	OECD 414	Rat	
		> 1000 mg/kg bw/d	OECD 414	Rat	
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse	
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Mouse	
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium	
	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat	
	NOAEL (oral)	160 mg/kg bw/d	OECD 407	Rat	
	Eye irritation	Irritant	OECD 405	Rabbit	
Skin irritation	Irritant	OECD 404	Rabbit		
(Ethoxymethoxy)cyclododecane	Skin irritation	Non-irritant	-----	Human	
	LC50 (inhalation)	> 2740 mg/m3	-----	Mouse	
	LD50 (oral)	13934 mg/kg bw	-----	Rat	
	Genotoxicity - estimate	Not genotoxic	Read across		
	NOAEL (dermal) - estimate	250 mg/kg bw/d	Read across	Rat	
	NOAEL (oral) - estimate	117 mg/kg bw/d	Read across	Rat	
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium	
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rabbit	
	LD50 (oral)	5000 mg/kg bw	-----	Rat	
	Eye irritation	Irritant	-----	Rabbit	
(Ethoxymethoxy)cyclododecane	Skin irritation	Irritant	-----	Rabbit	
	Skin sensitisation	Sensitizing.	OECD 429	Mouse	
	NOAEL (fertility, oral)	1000 mg/kg bw/d	OECD 422	Rat	
	NOAEL (development, oral)	1000 mg/kg bw/d	OECD 422	Rat	
	Eye irritation	Non-irritant	OECD 405	Rabbit	
	Skin irritation	Irritant	OECD 404	Rabbit	
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium	



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Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	NOAEL (oral)	1000 mg/kg bw/d	OECD 422	Rat
	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rabbit
	Skin irritation	Non-irritant		
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	LD50 (oral)	3600 mg/kg bw	-----	Rat
6,6-dimethoxy-2,5,5-trimethylhex-2-ene	Skin irritation	Non-irritant		
	NOAEL (development, oral)	> 500 mg/kg bw/d		Rat
	NOAEL (dermal)	> 300 mg/kg bw/d	-----	Rat
	Skin sensitisation	4100 ug/cm2	OECD 429	-----
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	LD50 (oral)	> 8000 mg/kg bw	-----	Mouse
Coumarin	NOEL (carcinogenicity - estimate)	Not carcinogenic		
	Genotoxicity - in vivo	> 105 mg/kg bw/d	OECD 474	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Skin irritation	Non-irritant		Rabbit
	NOAEL (oral)	> 138,3 mg/kg bw/d		Mouse
	LD50 (oral)	680 mg/kg bw	-----	Rat
	Eye irritation	Non-irritant		Rabbit
	NOAEL (development, oral)	> 115 mg/kg bw/d		Mouse
	Skin sensitisation	> 12500 ug/cm2	OECD 429	Mouse
	Genotoxicity - in vitro	Not genotoxic		
	Skin sensitisation	10875 ug/cm2	OECD 429	Mouse
Citronellol	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
	Eye irritation	Moderately irritant		Rabbit
	Skin sensitisation	3525 ug/cm2	OECD 429	Mouse
	NOAEL (fertility, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	Geraniol	NOAEL (developmental toxicity, dermal)	> 300 mg/kg bw/d	OECD 421
Mutagenicity		Negative	OECD 471	Salmonella typhimurium
Genotoxicity - in vivo		Not genotoxic	OECD 474	Mouse
Genotoxicity - in vitro		Not genotoxic	OECD 476	Chinese Hamster
NOAEL (dermal)		300 mg/kg bw/d	OECD 421	Rat
NOEL (oral)		> 550 mg/kg bw/d		Rat
NOEL (carcinogenicity - estimate)		Not carcinogenic	Read across	
LD50 (oral)		> 2840 mg/kg bw	-----	Rat
LD50 (dermal)		> 5000 mg/kg bw	-----	Rabbit
Mutagenicity		Negative	OECD 471	-----
Skin sensitisation		2372 ug/cm2	OECD 429	Mouse
2-(4-tert-butylbenzyl)propionaldehyde				



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3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	LD50 (oral)	1390 mg/kg bw	----	Rat	
	LD50 (dermal)	> 5000 mg/kg bw	----	Rabbit	
	Skin irritation	Irritant	OECD 404	Rabbit	
	Eye irritation	Non-irritant	----	Rabbit	
	NOAEL (oral)	25 mg/kg bw/d	----	Rat	
	Genotoxicity - in vivo	Negative	OECD 474	Mouse	
	NOAEL (fertility, oral)	25 mg/kg bw/d	----	Rat	
	NOAEL (development, oral)	4 mg/kg bw/d	OECD 414	Rat	
	Skin sensitisation	5450 ug/cm2	OECD 429	Mouse	
	2-(2,2,7,7-tetramethyltricyclo[6.2.1.0(1,6)] undec-5(4)-en-5-yl)propan-1-ol	LD50 (oral)	> 5000 mg/kg bw	----	Rat
LD50 (dermal)		> 5000 mg/kg bw	----	----	
NOAEL (development, oral)		30 mg/kg bw/d	----	----	
NOAEL (fertility, oral)		> 3,55 mg/kg bw/d	----	Rat	
NOAEL (oral)		> 3,55 mg/kg bw/d	----	Rat	
Genotoxicity - in vitro		Not genotoxic	----	----	
NOAEL (oral)		1000 mg/kg bw/d	OECD 407	Rat	
Genotoxicity - in vitro		Not genotoxic	OECD 473	----	
Mutagenicity		Negative	OECD 471	Salmonella typhimurium	
Eye irritation		Slightly irritant	OECD 405	Rabbit	
Allyl 3-cyclohexylpropionate	Skin irritation	Irritant	OECD 404	Rabbit	
	LD50 (oral)	> 2000 mg/kg bw	OECD 423	Rat	
	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rat	
	LD50 (oral)	585 mg/kg bw	OECD 401	Rat	
	LD50 (dermal)	1600 mg/kg bw	OECD 402	Rabbit	
	Skin sensitisation	Sensitizing.	OECD 406	----	
	Skin irritation	Non-irritant	----	----	
	Eye irritation	Non-irritant	OECD 405	Rabbit	
	NOAEL (development, oral)	10 mg/kg bw/d	OECD 414	Rat	
	NOAEL (oral)	> 125 mg/kg bw/d	----	Rat	
2,4-Dimethylcyclohex-3-ene-1-carbaldehyde	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium	
	NOAEL (fertility, oral)	125 mg/kg bw/d	OECD 415	Rat	
	Skin sensitisation	5900 ug/cm2	----	----	
	LD50 (oral)	> 2000 mg/kg bw	----	Rat	
	LD50 (dermal)	> 2000 mg/kg bw	----	Rabbit	
	Mutagenicity	Not mutagenic	----	Salmonella typhimurium	
	LD50 (oral)	2480 mg/kg bw	----	Rat	
	NOAEL (oral)	1200 mg/kg bw/d	----	Rat	
	Genotoxicity - in vitro	Not genotoxic	----	----	
Cineole	Mutagenicity	Not mutagenic	----	Salmonella typhimurium	
	Skin irritation	Non-irritant	----	----	
	Skin sensitisation	Sensitizing.	OECD 429	Mouse	
	LD50 (dermal)	> 2000 mg/kg bw	----	Rabbit	
	LD50 (oral)	> 5000 mg/kg bw	----	Rat	
	LD50 (oral)	2000 mg/kg bw	----	Rat	
	NOAEL (oral)	> 10 mg/kg bw/d	----	----	
	Genotoxicity - in vivo	> 1600 mg/kg bw/d	----	Mouse	
	1-(5,5-dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one				
	1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one				
Pentadecan-15-olide					



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1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	LD50 (oral)	> 5000 mg/kg bw	----	Rat
	LD50 (dermal)	> 5000 mg/kg bw	----	Rabbit
	Skin irritation	Slightly irritant	OECD 404	Rabbit
	Skin irritation	Non-irritant	Patch test	Human
	NOAEL (fertility) - estimate	> 1000 mg/kg.d	Read across	Rat
	NOAEL (development) - estimate	> 1000 mg/kg.d	Read across	Rat
	NOAEL (oral) - estimate	> 1000 mg/kg bw/d	Read across	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - estimate	Not genotoxic		
	Skin sensitisation	5450 ug/cm2	OECD 429	Mouse
	NOAEL (fertility, oral)	115 mg/kg bw/d	OECD 421	Rat
	NOAEL (development, oral)	115 mg/kg bw/d	OECD 421	Rat
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	NOAEL (oral)	10 mg/kg bw/d	OECD 408	Rat
3-(4-tert-butylphenyl)propionaldehyde	Eye irritation	Irritant	----	----
	Skin irritation	Irritant		Human
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Mouse
	LD50 (oral)	> 2325 mg/kg bw	OECD 401	Rat
	Genotoxicity - estimate	Not genotoxic	Read across	
	NOAEL (fertility, oral)	Reprotoxic		----
	Skin irritation	Irritant		
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Eye irritation	Non-irritant		Rabbit
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	LD50 (oral)	2700 mg/kg bw	----	Rat
	Skin sensitisation	Sensitizing.		
(Z)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
	LD50 (oral)	1670 mg/kg bw		Rat
	NOAEL (development, oral)	200 mg/kg bw/d	OECD 421	Rat
	LD50 (dermal)	2250 mg/kg bw	----	Rabbit
Citral	NOAEL (oral)	833 mg/kg bw/d	----	Rat
	Genotoxicity - in vitro	Not genotoxic		
	LD50 (oral)	4960 mg/kg bw	----	Rat
	Mutagenicity	Negative	OECD 471	
	NOEL (carcinogenicity, oral)	> 100 mg/kg bw/d	OECD 453	Rat
	NOAEL (developmental toxicity, inh.)	423 mg/m3	----	Rat
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	Skin irritation	Irritant		Human
	Skin irritation	Moderately irritant		Rabbit
	Eye irritation	Slightly irritant	OECD 405	Rabbit
	Genotoxicity - in vivo	Negative	OECD 474	Mouse
	NOAEL (fertility, oral)	> 1000 mg/kg bw/d	OECD 421	Rat

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): 1 mg/l. Calculated EC50 (waterflea): < 1 mg/l.
Contains 13 % 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 ass

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

12.6. Other adverse effects

Other information : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
Benzyl benzoate	IC50 (alga)	0,475 mg/l	OECD 201	Pseudokirchnerella subcapitata
	EC50 (waterflea)	3,09 mg/l	OECD 202	Daphnia magna
	NOEC (waterflea) - chronic	0,258 mg/l.d	OECD 211	Daphnia magna
	Ultimate aerobic biodegradation (%)	94 %	OECD 301 F	
	LC100 (fish)	2,84 mg/l	OECD 203	Brachydanio rerio
	LC0 (fish)	1,9 mg/l	OECD 203	Brachydanio rerio
	LC50 (fish)	2,32 mg/l	OECD 203	Brachydanio rerio
	Log P(ow)	3,97		
	BCF	24		
	2-tert-Butylcyclohexyl acetate	EC50 (waterflea)	17 mg/l	----
LC50 (fish)		1,7 mg/l	----	----
Log P(ow)		3,96		
d-Limonene	LC50 (fish)	0,720 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	0,36 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	> 92 %		
	NOEC (waterflea) - chronic	0,15 mg/l.d		Daphnia magna
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Log P(ow)	4,38		
	LC50 (fish)	1,3 mg/l	OECD 203	----
Alpha, beta,2,2,3-pentamethylcyclopent-3-ene-1-butanol	IC50 (alga)	> 2,6 mg/l	OECD 201	----
	EC50 (waterflea)	1,38 mg/l	OECD 202	----
	Log P(ow)	5,23		
	BCF	600		
Alpha, beta,2,2,3-pentamethylcyclopent-3-ene-1-butanol	EC50 (waterflea) - estimate	0,046 mg/l	----	----
	LC50 (fish) - estimate	0,2777 mg/l	----	----



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(Ethoxymethoxy)cyclododecane	Log P(ow)	4,73		
	Ultimate aerobic biodegradation (%)	< 60	OECD 302 C	
	IC50 (alga)	> 2 mg/l	OECD 201	Pseudokirchnerella subcapitata
	NOEC (waterflea) - acute	0,68 mg/l	OECD 202	Daphnia magna
	NOEC (fish)	1,3 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	1,6 mg/l	OECD 202	Daphnia magna
	LC50 (fish)	1,9 mg/l	OECD 203	Brachydanio rerio
	Log P(ow)	5,4		
	BCF	530		
	Log P(ow)	2,4		
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde 1-[(2-tert-Butyl)cyclohexyloxy]-2-butanol	Ultimate aerobic biodegradation (%)	3 %	OECD 301 C	
	NOEC (waterflea) - chronic	1,4 mg/l.d	OECD 202	Daphnia magna
	NOEC (fish)	0,22 mg/l.d	OECD 210	Pimephales promelas
	LC50 (fish)	4,1 mg/l	OECD 203	Oncorhynchus mykiss
	EC50 (waterflea)	5,9 mg/l	OECD 202	Daphnia magna
	IC50 (alga)	5,6 mg/l	OECD 201	Selenastrum capricornutum
	Log P(ow)	4,05		
	EC100 (waterflea)	25 mg/l		Daphnia magna
	Ultimate aerobic biodegradation (%)	68 %	OECD 301 F	
	EC50 (waterflea)	10,7 mg/l		Daphnia magna
2-(4-tert-butylbenzyl)propionaldehyde	LC50 (fish)	2,2 mg/l	OECD 203	Brachydanio rerio
	EC0 (waterflea)	6,25 mg/l		Daphnia magna
	Log P(ow)	4,3000		
	BCF	274		
	LC50 (fish)	10,9 mg/l	-----	Oncorhynchus mykiss
	Ultimate aerobic biodegradation (%)	61,8 %	OECD 301 B	
	EC50 (waterflea) - estimate	3,04 mg/l	-----	Daphnia magna
	Log P(ow)	4,6		
	Ultimate aerobic biodegradation (%)	90 %	OECD 301 F	
	EC50 (waterflea) - estimate	> 100 mg/l		Daphnia magna
2-(2,2,7,7-tetramethyltricyclo[6.2.1.0(1,6)] undec-5(4)-en-5-yl)propan-1-ol	IC50 (alga) - estimate	> 100 mg/l		
	IC50 (alga)	> 0,14 mg/l	OECD 201	Pseudokirchnerella subcapitata
	EC50 (waterflea)	> 0,26 mg/l	OECD 202	Daphnia magna
	LC50 (fish)	0,3 mg/l	OECD 203	Cyprinus carpio
	Log P(ow)	6,2		
	BCF	57,4		
	IC50 (alga)	0,61 mg/l	OECD 201	Desmodesmus subspicatus
	EC50 (waterflea)	3,7 mg/l	OECD 202	Daphnia magna
	LC50 (fish) - estimate	1,13 mg/l		Brachydanio rerio
(Z)-3-hexenyl salicylate				



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(E)-oxacyclohexadec-12-en-2-one, (E)-oxacyclohexadec-13-en-2-one	Ultimate aerobic biodegradation (%)	89 %	OECD 301 F	
	Log P(ow)	4,57		
(±)-trans-3,3-Dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol	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	
	EC50 (waterflea)	1 mg/l	OECD 202	Daphnia magna
Allyl 3-cyclohexylpropionate	Ultimate aerobic biodegradation (%)	7 %	OECD 301 C	
	Log P(ow)	4,99		
	LC50 (fish)	0,13 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	3,8 mg/l	OECD 202	Daphnia magna
	IC50 (alga)	2,1 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	86 %	OECD 301 D	
	Log P(ow)	4,12		
1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one Pentadecan-15-olide	BCF	861		
	Log P(ow)	4,04		
	EC50 (waterflea)	> 0,17 mg/l	OECD 202	Daphnia magna
	LC0 (fish)	> 0,11 mg/l	-----	-----
	IC50 (alga)	0,4 mg/l	OECD 201	Scenedesmus subspicatus
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Ultimate aerobic biodegradation (%)	82 %	OECD 301 B	
	LC50 (fish) - estimate	2 mg/l	OECD 203	Oncorhynchus mykiss
	NOEC (waterflea) - chronic	0,068 mg/l.d	OECD 211	Daphnia magna
	Log P(ow)	5,79		
	BCF	599		
	Ultimate aerobic biodegradation (%)	0 %	OECD 301 C	
	IC50 (alga)	10 mg/l	OECD 201	Desmodesmus subspicatus
	EC50 (waterflea)	1,5 mg/l	OECD 202	Daphnia magna
p-Cymene	LC50 (fish)	2,12 mg/l		Oryzias latipes
	Log P(ow)	4,2		
	BCF	81		
	LC50 (fish)	48 mg/l	-----	Cyprinodon variegatus
	EC50 (waterflea)	6,5 mg/l	-----	Daphnia magna
	IC50 (alga)	4,03 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Primary aerobic biodegradation (%)	88 %		
Log P(ow)	4,1			
BCF	286			

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.
- 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

UN nr. : UN 3082

14.2. UN proper shipping name

Transport name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one)

Transport name (IMDG, IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)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



Other information : Not intended for carriage by tank-vessels on inland waterways.

IMDG (sea)

Class : 9
Packaging group : III
EmS (fire / spill) : F - A / S - F
Marine pollutant : Yes

IATA (air)

Class : 9

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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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 *

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

Community regulations : Regulation (EU) No 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.

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 2015/830 dated 28 May 2015 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
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
VOC	: Volatile Organic Compounds
vPvB	: Very Persistent and Very Bioaccumulative

Full text of hazard classes mentioned in section 3:

Flam. Liq. 3	: Flammable liquid, hazard category 3.
Flam. Sol. 1	: Flammable solid, category 1.
Acute Tox. 4	: Acute toxicity, category 4.
Skin Irrit. 2	: Skin irritation, category 2.



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Eye Dam. 1	: Serious eye damage, category 1.
Eye Irrit. 2	: Eye irritation, category 2.
Skin Sens. 1	: Skin sensitization, category 1.
STOT SE 2	: Specific target organ toxicity after single exposure, category 2.
STOT RE 2	: Specific target organ toxicity — repeated exposure, category 2.
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.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

Number format : "," used as decimal separator.

End of safety data sheet.