



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

1.1. Product identifier

Product name : LIMPRO FLORAL & SWEET
Product code : LIM-130

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 : +31-30-7116 824
Fax : +31-30-3100 141
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)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):

(24/7)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification : Skin irritation, category 2. Skin sensitization, category 1. Eye irritation, category 2. Hazardous to the aquatic environment — Acute category 1. Hazardous to the aquatic environment — Chronic category 2.

Human health hazards : Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives.

Environmental hazards : Very toxic to aquatic organisms. 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 : 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.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of water/soap.



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P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

: Contains: d-Limonene ; Linalool ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one ; 2-(4-tert-butylbenzyl)propionaldehyde ; Alpha-methyl-1,3-benzodioxole-5-propionaldehyde ; 7-Hydroxycitronellal ; Citronellol ; alpha-Hexylcinnamaldehyde ; Geraniol ; Pin-2(3)-ene ; (Z)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one ; Pentadecan-15-olide ; 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde ; 3-p-Cumenyl-2-methylpropionaldehyde ; 1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one ; Eugenol .

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.
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	1 - < 5	14901-07-6	238-969-9		01-2119937833-30
3-(2,2-Dimethyl-3-hydroxypropyl)toluene	1 - < 5	103694-68-4	403-140-4		01-2119879275-25
Benzyl acetate	1 - < 5	140-11-4	205-399-7		
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	5 - < 10	63500-71-0	405-040-6		01-2119455547-30
3,7-Dimethylnona-1,6-dien-3-ol	5 - < 10	10339-55-6	233-732-6		01-2119969272-32
Linalool	5 - < 10	78-70-6	201-134-4		01-2119474016-42
Linalyl acetate	1 - < 5	115-95-7	204-116-4		01-2119454789-19
2-(4-tert-butylbenzyl)propionaldehyde	2,5 - < 3	80-54-6	201-289-8		01-2119485965-18
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1 - < 5	1205-17-0	214-881-6		
2-Phenylethanol	1 - < 5	60-12-8	200-456-2		
7-Hydroxycitronellal	1 - < 5	107-75-5	203-518-7		01-2119973482-31
Citronellol	1 - < 5	106-22-9	203-375-0		01-2119453995-23
Geraniol	1 - < 3	106-24-1	203-377-1		01-2119552430-49
Pin-2(3)-ene	0,1 - < 1	80-56-8	201-291-9		
(Z)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	0,1 - < 1	23726-94-5	245-845-8		
Pentadecan-15-olide	0,1 - < 1	106-02-5	203-354-6		01-2119987323-31
2,4-Dimethylcyclohex-3-ene-1-carbaldehyde	0,1 - < 1	68039-49-6	268-264-1		
3-p-Cumenyl-2-methylpropionaldehyde	0,1 - < 1	103-95-7	203-161-7		01-2119970582-32
1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	0,1 - < 1	23696-85-7	245-833-2		
Eugenol	0,1 - < 1	97-53-0	202-589-1		01-2119971802-33
Benzyl benzoate	10 - < 25	120-51-4	204-402-9		01-2119976371-33
d-Limonene	5 - < 10	5989-27-5	227-813-5		01-2119529223-47
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



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alpha-Hexylcinnamaldehyde	1 - < 2,5	101-86-0	202-983-3		01-2119533092-50
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	0,25 - < 1	28219-61-6	248-908-8		01-2119529224-45

Substance name	Hazard Class	H-phrases	Pictograms	
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	Aquatic Chronic 2	H411	GHS09	
3-(2,2-Dimethyl-3-hydroxypropyl)toluene	Aquatic Chronic 3	H412	----	
Benzyl acetate	Aquatic Chronic 3	H412	----	
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	Eye Irrit. 2	H319	GHS07	
3,7-Dimethylnona-1,6-dien-3-ol	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
Linalool	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1B	H315; H317; H319	GHS07	
Linalyl acetate	Skin Irrit. 2; Eye Irrit. 2	H315; H319	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	
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Skin Sens. 1; Aquatic Chronic 2	H317; H411	GHS07; GHS09	
2-Phenylethanol	Acute Tox. 4; Eye Irrit. 2	H302; H319	GHS07	
7-Hydroxycitronellal	Skin Sens. 1B; Eye Irrit. 2	H317; H319	GHS07	
Citronellol	Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1B	H319; H317; H315	GHS07	
Geraniol	Skin Sens. 1B; Eye Dam. 1; Skin Irrit. 2	H317; H318; H315	GHS05; GHS07	
Pin-2(3)-ene	Flam. Liq. 3; Skin Sens. 1; Asp. Tox. 1; Skin irrit. 2	H226; H317; H315; H304	GHS07; GHS08; GHS02	
(Z)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	Acute Tox. 4; Skin Sens. 1B	H302; H317	GHS07	
Pentadecan-15-olide	Skin Sens. 1B; Aquatic Chronic 2	H317; H411	GHS07; GHS09	
2,4-Dimethylcyclohex-3-ene-1-carbaldehyde	Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 3	H319; H315; H317; H412	GHS07	
3-p-Cumenyl-2-methylpropionaldehyde	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 3	H315; H317; H412	GHS07	
1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Skin Sens. 1A; Aquatic Chronic 2	H317; H411	GHS07; GHS09	
Eugenol	Eye Irrit. 2; Skin Sens. 1B	H319; H317	GHS07	
Benzyl benzoate	Acute Tox. 4; Aquatic Acute 1; Aquatic chronic 2	H302; H400; H411	GHS07; GHS09	M (acute) = 1
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
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



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alpha-Hexylcinnamaldehyde	Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 2	H317; H400; H411	GHS07; GHS09	M (acute) = 1
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Eye Irrit. 2; Aquatic Acute 1; Aquatic Chronic 1	H319; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1

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 for at least 15 minutes. 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.
- 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.

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



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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.

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
Benzyl acetate		5	-	
Pin-2(3)-ene		113	-	
d-Limonene		110	-	

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
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	Dermal				2,1913 mg/kg bw/day



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Benzyl acetate	Inhalation				2,498 mg/m3
	Dermal		12,5 mg/kg bw		6,25 mg/kg bw/day
3,7-Dimethylnona-1,6-dien-3-ol	Inhalation		43,8 mg/m3		21,9 mg/m3
	Dermal	16 mg/kg bw	5,5 mg/kg bw	16 mg/kg bw/day	2,7 mg/kg bw/day
Linalool	Inhalation		18 mg/m3		3 mg/m3
	Dermal		5 mg/kg bw		2,5 mg/kg bw/day
Linalyl acetate	Inhalation		16,5 mg/m3		2,8 mg/m3
	Dermal	0,8 mg/kg bw		0,8 mg/kg bw/day	2,5 mg/kg bw/day
2-(4-tert-butylbenzyl)propionaldehyde	Inhalation				2,75 mg/m3
	Dermal	0,41 mg/kg bw	20 mg/kg bw		3,33 mg/kg bw/day
2-Phenylethanol	Inhalation	0,29 mg/m3	0,29 mg/m3	0,048 mg/m3	0,048 mg/m3
	Dermal				21,2 mg/kg bw/day
7-Hydroxycitronellal	Inhalation				59,9 mg/m3
	Dermal				1,9 mg/kg bw/day
Citronellol	Inhalation				18 mg/m3
	Dermal				45,8 mg/kg bw/day
Geraniol	Inhalation				161,6 mg/m3
	Dermal				12,5 mg/kg bw/day
Pin-2(3)-ene	Inhalation				161,6 mg/m3
2,4-Dimethylcyclohex-3-ene-1-carbaldehyde	Inhalation				5,98 mg/m3
	Dermal				0,125 mg/kg bw/day
3-p-Cumenyl-2-methylpropionaldehyde	Inhalation				0,44 mg/m3
	Dermal				1,67 mg/kg bw/day
Eugenol	Inhalation				5,83 mg/m3
	Dermal				6 mg/kg bw/day
Benzyl benzoate	Inhalation				21,2 mg/m3
	Dermal				2,6 mg/kg bw/day
d-Limonene	Inhalation		102 mg/m3		5,1 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
alpha-Hexylcinnamaldehyde	Inhalation				1,76 mg/m3
	Dermal	0,525 mg/kg bw		0,525 mg/kg bw/day	18,2 mg/kg bw/day
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Inhalation	6,28 mg/m3			0,078 mg/m3
	Dermal		6 mg/kg bw		1,4 mg/kg bw/day
	Inhalation		7 mg/m3		7 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
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	Dermal				0,5403 mg/kg bw/day
	Inhalation				0,6214 mg/m3
	Oral				4,3825 mg/kg bw/day
Benzyl acetate	Dermal		6,25 mg/kg bw		3,125 mg/kg bw/day
	Inhalation		11 mg/m3		5,5 mg/m3
3,7-Dimethylnona-1,6-dien-3-ol	Oral		6,25 mg/kg bw		3,125 mg/kg bw/day
	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
Linalool	Dermal		2,5 mg/kg bw	15 mg/kg bw/day	1,25 mg/kg bw/day



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Linalyl acetate	Inhalation Oral Dermal		4,1 mg/m3 1,2 mg/kg bw		0,7 mg/m3 0,2 mg/kg bw/day 1,25 mg/kg bw/day
2-(4-tert-butylbenzyl)propionaldehyde	Inhalation Oral Dermal Inhalation Oral	0,8 mg/kg bw 0,41 mg/kg bw 0,07 mg/m3	20 mg/kg bw 0,07 mg/m3 0,041 mg/kg bw	0,8 mg/kg bw/day 0,012 mg/m3	0,68 mg/m3 0,2 mg/kg bw/day 1,67 mg/kg bw/day 0,012 mg/m3 0,007 mg/kg bw/day
2-Phenylethanol	Dermal Inhalation Oral		5,1 mg/kg bw		12,7 mg/kg bw/day 17,7 mg/m3 5,1 mg/kg bw/day
7-Hydroxycitronellal	Dermal Inhalation Oral				1,1 mg/kg bw/day 5,4 mg/m3 0,6 mg/kg bw/day
Citronellol	Dermal Inhalation Oral				27,5 mg/kg bw/day 47,8 mg/m3 13,75 mg/kg bw/day
Geraniol	Dermal Inhalation Oral				7,5 mg/kg bw/day 47,8 mg/m3 13,75 mg/kg bw/day
Pin-2(3)-ene	Inhalation Oral				1,06 mg/m3 0,31 mg/kg bw/day
2,4-Dimethylcyclohex-3-ene-1-carbaldehyde	Dermal				0,062 mg/kg bw/day
3-p-Cumenyl-2-methylpropionaldehyde	Inhalation Oral Dermal Inhalation Oral				0,108 mg/m3 0,062 mg/kg bw/day 0,83 mg/kg bw/day 1,45 mg/m3 0,83 mg/kg bw/day
Eugenol	Dermal Inhalation Oral				3 mg/kg bw/day 5,22 mg/m3 3 mg/kg bw/day
Benzyl benzoate	Dermal Inhalation Oral		25 mg/m3 78 mg/kg bw		1,3 mg/kg bw/day 1,25 mg/m3 0,4 mg/kg bw/day
d-Limonene	Inhalation Oral				8,33 mg/m3 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
alpha-Hexylcinnamaldehyde	Inhalation Oral Dermal				0,43 mg/m3 0,25 mg/kg bw/day 9,11 mg/kg bw/day
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Inhalation Oral Dermal	0,0787 mg/kg bw 4,71 mg/m3		0,0787 mg/kg bw/day	0,019 mg/m3 0,056 mg/kg bw/day 0,5 mg/kg bw/day
	Inhalation Oral		3 mg/kg bw 1,5 mg/m3 3 mg/kg bw		1,5 mg/m3 0,5 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	Water	0,00146 mg/l	0,000146 mg/l	



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Benzyl acetate	Sediment	22,45 mg/kg	22,45 mg/kg	
	Intermittent water			0,0146 mg/l
	STP			0,0428 mg/l
	Soil			10,47 mg/kg
	Water	0,004 mg/l	0,0004 mg/l	
3,7-Dimethylnona-1,6-dien-3-ol	Sediment	0,114 mg/kg	0,0114 mg/kg	
	Intermittent water			0,04 mg/l
	STP			8,55 mg/l
	Soil			0,0205 mg/kg
	Water	0,023 mg/l	0,0023 mg/l	
Linalool	Sediment	0,223 mg/kg	0,0223 mg/kg	
	Intermittent water			0,23 mg/l
	STP			10 mg/l
	Soil			0,031 mg/kg
	Oral			8,53 mg/kg food
Linalyl acetate	Water	0,2 mg/l	0,02 mg/l	
	Sediment	2,22 mg/kg	0,222 mg/kg	
	Intermittent water			2 mg/l
	STP			10 mg/l
	Soil			0,327 mg/kg
2-(4-tert-butylbenzyl)propionaldehyde	Oral			7,8 mg/kg food
	Water	0,011 mg/l	0,0011 mg/l	
	Sediment	0,609 mg/kg	0,0609 mg/kg	
	Intermittent water			0,11 mg/l
	STP			10 mg/l
2-Phenylethanol	Soil			0,115 mg/kg
	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
Citronellol	Soil			0,0463 mg/kg
	Water	0,215 mg/l	0,0215 mg/l	
	Sediment	1,454 mg/kg	0,1454 mg/kg	
	Intermittent water			2,15 mg/l
	STP			10 mg/l
Geraniol	Soil			0,164 mg/kg
	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
Pin-2(3)-ene	Soil			0,00371 mg/kg
	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
Pentadecan-15-olide	Soil			0,0167 mg/kg
	Water	0,004 mg/l	0,0004 mg/l	
	Sediment	1,033 mg/kg	0,103 mg/kg	
	STP			3,26 mg/l
	Soil			0,539 mg/kg
	Oral			1,35 mg/kg food
	Water	0,0027 mg/l	0,00027 mg/l	
	Sediment	21 mg/kg	4,2 mg/kg	
	STP			10 mg/l
	Soil			10 mg/kg

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde	Water	0,0075 mg/l	0,00075 mg/l	
	Sediment	0,226 mg/kg	0,0226 mg/kg	
	Intermittent water			0,075 mg/l
	STP			10 mg/l
3-p-Cumenyl-2-methylpropionaldehyde	Soil			0,0408 mg/kg
	Water	0,00109 mg/l	0,00011 mg/l	
	Sediment	0,126 mg/kg	0,0126 mg/kg	
	Intermittent water			0,01092 mg/l
Benzyl benzoate	STP			1 mg/l
	Soil			0,0245 mg/kg
	Water	0,017 mg/l	0,002 mg/l	
	Sediment	10,66 mg/kg	1,07 mg/kg	
d-Limonene	STP			100 mg/l
	Soil			2,12 mg/kg
	Water	0,0054 mg/l	0,0005 mg/l	
	Sediment	1,32 mg/kg	0,13 mg/kg	
alpha-Hexylcinnamaldehyde	STP			1,8 mg/l
	Soil			0,262 mg/kg
	Oral			3,33 mg/kg food
	Water	0,03 mg/l	0,003 mg/l	
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Sediment	47,7 mg/kg	4,77 mg/kg	
	Intermittent water			0,03 mg/l
	STP			10 mg/l
	Soil			9,51 mg/kg
	Oral			6,6 mg/kg food
	Water	0,00063 mg/l	0,000063 mg/l	
	Sediment	0,044 mg/kg	0,0044 mg/kg	
	STP			1 mg/l
	Soil			0,0084 mg/kg
	Oral			1 mg/kg food

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, when there is danger of possible eye contact.



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 (2-(4-tert-butylbenzyl)propionaldehyde)
		Upper explosion limit in air (%): 11,9 2-Phenylethanol
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: 57 %. 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: > 4147 mg/kg.bw. Ingredients of unknown toxicity: 8 %. 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 : Irritant.

Ingestion

- Acute toxicity : Calculated LD50: > 3364 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
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	LD50 (oral)	> 5000 mg/kg bw	-----	Rat
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	Eye irritation	Irritant	-----	Rabbit
	Skin irritation	Non-irritant	-----	Rabbit
3,7-Dimethylnona-1,6-dien-3-ol	Skin irritation	Non-irritant	Patch test	Human
	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



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Linalool	Genotoxicity - estimate	Not genotoxic	Read across	
	Skin irritation	Irritant	-----	Rabbit
	Eye irritation	Irritant	-----	Rabbit
	NOAEL (development, oral)	365 mg/kg bw/d	-----	Rat
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin sensitisation	12650 ug/cm2	OECD 429	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (fertility, oral)	500 mg/kg bw/d		Rat
	Skin irritation	Irritant	OECD 404	Rabbit
	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat
	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
Linalyl acetate	NOAEL (oral)	117 mg/kg bw/d	-----	Rat
		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)	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
	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
2-(4-tert-butylbenzyl)propionaldehyde	Mutagenicity	Negative	OECD 471	-----
	Skin sensitisation	2372 ug/cm2	OECD 429	Mouse
	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 irritation	Non-irritant		
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	LD50 (oral)	3600 mg/kg bw	-----	Rat
	Skin irritation	Non-irritant		
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	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 (oral)	1609 mg/kg bw	-----	Rat
	NOAEL (dermal)	510 mg/kg bw/d	OECD 411	Rat
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
2-Phenylethanol	NOAEL (development, oral)	4,3 mg/kg bw/d		Rat

7-Hydroxycitronellal	Eye irritation	Irritant	----	Rabbit
	Skin irritation	Slightly irritant	----	Rabbit
	LD50 (dermal)	2535 mg/kg bw	OECD 402	Rabbit
	Skin sensitisation - estimate	Not sensitizing		
	NOAEL (developmental toxicity, dermal)	140 mg/kg bw/d		Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Skin irritation	Irritant		
	LD50 (dermal)	> 2000 mg/kg bw	----	Rabbit
	Skin sensitisation	5612 ug/cm2	OECD 429	Mouse
	Skin irritation	850 ug/cm2	OECD 404	
	Eye irritation	Irritant		
	Skin irritation	Non-irritant		
	LD50 (oral)	> 5000 mg/kg bw	----	Rat
	NOEL (oral)	250 mg/kg bw/d		
Citronellol	Genotoxicity - in vivo	Not genotoxic		Mouse
	NOEL (carcinogenicity) - estimate	Not carcinogenic		
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	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
	Eye irritation	Moderately irritant		Rabbit
Geraniol	NOEL (oral)	> 550 mg/kg bw/d		Rat
	LD50 (dermal)	> 5000 mg/kg bw	----	Rabbit
	LD50 (oral)	> 2840 mg/kg bw	----	Rat
	NOEL (carcinogenicity) - estimate	Not carcinogenic	Read across	
	NOAEL (dermal)	300 mg/kg bw/d	OECD 421	Rat
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (developmental toxicity, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	NOAEL (fertility, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	Skin sensitisation	3525 ug/cm2	OECD 429	Mouse
	NOAEL (oral) - estimate	250 mg/kg bw/d	Read across	
	NOAEL (inhalation)	170 mg/m3	OECD 413	Rat
	LD50 (oral)	3700 mg/kg bw	----	Rat
Pin-2(3)-ene	NOAEL (development) - estimate	250 mg/kg.d	Read across	Rat
	Genotoxicity - estimate	Not genotoxic	Read across	
	Eye irritation - estimate	Moderately irritant	Read across	Rabbit
	Mutagenicity	Not mutagenic	----	Salmonella typhimurium



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(Z)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	LD50 (dermal)	> 5000 mg/kg bw	----	Rabbit
	Skin irritation	Moderately irritant	----	Rabbit
	Skin irritation	Non-irritant	----	Human
	Skin sensitisation	Sensitizing.	----	Guinea pig
	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
Pentadecan-15-olide	LD50 (oral)	1670 mg/kg bw		Rat
	Skin sensitisation	Sensitizing.		
	Genotoxicity - in vivo	> 1600 mg/kg bw/d		Mouse
	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
2,4-Dimethylcyclohex-3-ene-1-carbaldehyde	Skin sensitisation	5900 ug/cm2		
	LD50 (oral)	> 2000 mg/kg bw		Rat
	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
	Mutagenicity	Not mutagenic		Salmonella typhimurium
	Skin sensitisation	5575 ug/cm2	OECD 429	Mouse
3-p-Cumenyl-2-methylpropionaldehyde	NOAEL (oral)	300 mg/kg bw/d		Rabbit
	Skin irritation	Slightly irritant		Rabbit
	LD50 (oral)	3810 mg/kg bw	----	Rat
	NOAEL (fertility, oral)	25 mg/kg bw/d	OECD 415	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - estimate	> 2000 mg/kg bw/d	Read across	Mouse
	Eye irritation	Non-irritant		Rabbit
	LD50 (dermal)	> 5000 mg/kg bw	----	Rat
	LD50 (oral)	2000 mg/kg bw	----	Rat
	NOAEL (oral)	> 10 mg/kg bw/d	----	----
1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	LD50 (oral)	> 2000 mg/kg bw	OECD 423	Rat
	LC50 (inhalation)	> 2580 mg/m3	OECD 403	Rat
	LC50 (inhalation) - estimate	> 5000 mg/m3		Rat
	LD50 (dermal)	> 2000 mg/kg bw		Rat
	NOEL (carcinogenicity, oral)	300 mg/kg bw/d	----	Rat
	Skin sensitisation	2703 ug/cm2	OECD 429	Mouse
	NOAEL (oral)	600 mg/kg bw/d	OECD 408	Rat
	Genotoxicity - in vitro	Genotoxic	OECD 476	Mouse
	Genotoxicity - estimate	Not genotoxic		
	Genotoxicity - in vivo	Genotoxic	OECD 474	Mouse
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	NOAEL (fertility) - estimate	> 700 mg/kg.d	Read across	Rat
	NOAEL (development, oral)	250 mg/kg bw/d		Rabbit
Eugenol				



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Benzyl benzoate	Skin irritation	Slightly irritant	-----	Rabbit
	Skin sensitisation	> 12500 ug/cm2	OECD 429	Mouse
	LD50 (dermal)	4000 mg/kg bw	-----	Rabbit
	NOAEL (development - estimate)	100 mg/kg.d		Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	LC50 (inhalation) - estimate	> 5570 mg/m3	Read across	
	LD50 (oral)	1700 mg/kg bw	-----	Rat
	NOAEL (oral) - estimate	460 mg/kg bw/d		Rat
	Genotoxicity - estimate	Not genotoxic	Read across	Chinese Hamster
	Genotoxicity - in vivo	> 2000 mg/kg bw/d		Rat
d-Limonene	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	-----	-----
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	LD50 (oral)	4400 mg/kg bw	-----	Rat
	Genotoxicity - in vitro	Not genotoxic		
	NOAEL (oral)	150 mg/kg bw/d		Rat
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
	NOAEL (development, oral)	100 mg/kg bw/d	OECD 421	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
alpha-Hexylcinnamaldehyde	Eye irritation	Non-irritant		Rabbit
	NOAEL (oral) - estimate	30 mg/kg bw/d	Read across	Rat
	LD50 (dermal)	> 3000 mg/kg bw	OECD 402	Rabbit
	LC50 (inhalation)	> 5000 mg/m3	OECD 403	Rat
	LD50 (oral)	> 2450 mg/kg bw	OECD 401	Rat
	Skin sensitisation	2372 ug/cm2	OECD 429	Mouse
	Skin irritation	Moderately irritant	OECD 404	Rabbit
	NOAEL (dermal)	25 mg/kg bw/d		Rat

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Very toxic to aquatic organisms. Calculated LC50 (fish): 3 mg/l. Calculated EC50 (waterflea): 2 mg/l. Contains 9 % 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 : No specific information known.

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
	LC0 (fish)	1,9 mg/l	OECD 203	Brachydanio rerio
	LC100 (fish)	2,84 mg/l	OECD 203	Brachydanio rerio
	Ultimate aerobic biodegradation (%)	94 %	OECD 301 F	
	LC50 (fish)	2,32 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	3,09 mg/l	OECD 202	Daphnia magna
	NOEC (waterflea) - chronic	0,258 mg/l.d	OECD 211	Daphnia magna
	Log P(ow)	3,97		
d-Limonene	BCF	24		
	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		
	EC50 (waterflea)	1,38 mg/l	OECD 202	-----
	IC50 (alga)	> 2,6 mg/l	OECD 201	-----
alpha-Hexylcinnamaldehyde	LC50 (fish)	1,3 mg/l	OECD 203	-----
	Log P(ow)	5,23		
	BCF	600		
	NOEC (fish)	0,93 mg/l	OECD 203	Pimephales promelas
	LC50 (fish)	1,7 mg/l	OECD 203	Pimephales promelas
	Ultimate aerobic biodegradation (%)	97 %	OECD 301 F	
	IC50 (alga)	> 0,32 mg/l	OECD 201	Desmodesmus subspicatus
	Log P(ow)	5,3		
	Ultimate aerobic biodegradation (%)	0 %	OECD 301 F	
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	IC50 (alga)	2,5 mg/l		Pseudokirchnerella subcapitata
	EC50 (waterflea)	0,63 mg/l	OECD 202	Daphnia magna



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	LC50 (fish)	1,1 mg/l	----	Lepomis macrochirus
	Log P(ow)	4,44		

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, category 3.
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.
Asp. Tox. 1	: Aspiration hazard, category 1.
Aquatic Chronic 1	: Hazardous to the aquatic environment — Chronic category 1.
Aquatic Chronic 2	: Hazardous to the aquatic environment — Chronic category 2.
Aquatic Chronic 3	: Hazardous to the aquatic environment — Chronic category 3.
Aquatic Acute 1	: Hazardous to the aquatic environment — Acute category 1.

Full text of H-phrases mentioned in section 3:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Number format : "," used as decimal separator.

End of safety data sheet.