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

1.1. Product identifier

Product name : LAFITA BASTILLE
Product code : DOV-016

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):
National Poisons Information Service +44-844 892 0111 (24/7)

SECTION 2 HAZARDS IDENTIFICATION *

2.1. Classification of the substance or mixture

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

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

2.2. Label elements

Label elements (1272/2008/EC):
Hazard pictograms :

Signal word : Warning

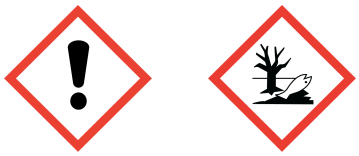
H- and P-phrases :

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
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.

P302+P352	IF ON SKIN: Wash with plenty of water/soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to an official chemical waste depot.

Labelling of packagings where the contents do not exceed 125 ml:

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 hands eyes	Wear protective gloves and eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water/soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
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: 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one ; 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one ; Benzyl salicylate ; Linalool ; (Ethoxymethoxy)cyclododecane ; Piperonal ; 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one ; Coumarin ; Citronellol ; d-Limonene ; 1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one ; 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one .

2.3. Other hazards

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

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS *

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
Oxydipropanol	25 - < 50	25265-71-8	246-770-3	MAC	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one	10 - < 20	54464-57-2	259-174-3		01-2119489989-04
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno(5,6-c)pyran	5 - < 10	1222-05-5	214-946-9		01-2119488227-29
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	5 - < 10	127-51-5	204-846-3		
Benzyl salicylate	5 - < 10	118-58-1	204-262-9		01-2119969442-31
Linalool	1 - < 5	78-70-6	201-134-4		01-2119474016-42

3-methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	2,5 - < 5	67801-20-1	267-140-4		01-2119940039-39
Vanillin	1 - < 5	121-33-5	204-465-2		01-2119516040-60
3,7-Dimethylnona-1,6-dien-3-ol	1 - < 5	10339-55-6	233-732-6		01-2119969272-32
Linalyl acetate	1 - < 5	115-95-7	204-116-4		01-2119454789-19
(Ethoxymethoxy)cyclododecane	2,5 - < 5	58567-11-6	261-332-1		01-2119971571-34
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	2,5 - < 5	28219-61-6	248-908-8		01-2119529224-45
Piperonal	1 - < 5	120-57-0	204-409-7		01-2119983608-21
(E)-oxacyclohexadec-12-en-2-one, (E)-oxacyclohexadec-13-en-2-one	2,5 - < 5	111879-80-2	422-320-3		01-0000016883-62
(Z)-3-hexenyl salicylate	0,25 - < 1	65405-77-8	265-745-8		01-2119987320-37
Alpha-Cedrene	0,25 - < 1	469-61-4	207-418-4		
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
Coumarin	0,1 - < 1	91-64-5	202-086-7		01-2119949300-45
Benzaldehyde	0,1 - < 1	100-52-7	202-860-4		
Benzyl acetate	0,1 - < 1	140-11-4	205-399-7		
p-cresol	0,1 - < 1	106-44-5	203-398-6		
Bornan-2-one	0,1 - < 1	76-22-2	200-945-0		
butanedione	0,1 - < 1	431-03-8	207-069-8		
Acetophenone	0,1 - < 1	98-86-2	202-708-7		
Citronellol	0,1 - < 1	106-22-9	203-375-0		01-2119453995-23
d-Limonene	0,25 - < 1	5989-27-5	227-813-5		01-2119529223-47
1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	0,01 - < 0,1	23696-85-7	245-833-2		
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	0,01 - < 0,1	57378-68-4	260-709-8		

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

Substance name	Hazard Class	H-phrases	Pictograms	
Oxydipropanol	-----	-----	-----	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one	Skin Irrit. 2; Skin Sens 1B; Aquatic Chronic 1	H315; H317; H410	GHS07; GHS09	M (chronic) = 1
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno(5,6-c)pyran	Aquatic Acute 1; Aquatic Chronic 1	H400; H410	GHS09	M (chronic) = 1
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	
Benzyl salicylate	Skin Sens. 1; Eye Irrit. 2; Aquatic Chronic 2	H317; H319; H411	GHS07; GHS09	
Linalool	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1B	H315; H317; H319	GHS07	
3-methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	Aquatic Chronic 2	H411	GHS09	
Vanillin	Eye Irrit. 2	H319	GHS07	
3,7-Dimethylnona-1,6-dien-3-ol	Skin Irrit. 2; Eye Irrit: 2	H315; H319	GHS07	
Linalyl acetate	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
(Ethoxymethoxy)cyclododecane	Skin Irrit. 2; Skin Sens. 1; Aquatic Chronic 2	H315; H317; H411	GHS07; GHS09	
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
Piperonal	Skin Sens. 1	H317	GHS07	
(E)-oxacyclohexadec-12-en-2-one, (E)-oxacyclohexadec-13-en-2-one	Aquatic Acute 1; Aquatic Chronic 1	H400; H410	GHS09	M (acute) = 1 M (chronic) = 1

(Z)-3-hexenyl salicylate	Aquatic Acute 1; Aquatic Chronic 1	H400; H410	GHS09	M (acute) = 1 M (chronic) = 1
Alpha-Cedrene	Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1	H304; H400; H410	GHS08; GHS09	M (acute) = 10 M (chronic) = 10
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	
Coumarin	Acute Tox. 4; Skin Sens. 1B; Aquatic Chronic 3	H302; H317; H412	GHS07	
Benzaldehyde	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Acute Tox. 4; STOT SE 3; Aquatic Chronic 3	H302; H315; H319; H332; H335; H412	GHS07	
Benzyl acetate	Aquatic Chronic 3	H412	-----	
p-cresol	Acute Tox. 3; Acute Tox. 3; Skin Corr. 1B; Aquatic Chronic 3	H301; H311; H314; H412	GHS05; GHS06	M (chronic) = 1
Bornan-2-one	Flam. Sol. 2; Acute Tox. 4; STOT SE 2	H228; H332; H371	GHS02; GHS07; GHS08	
butanedione	Flam. Liq. 2; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1	H225; H302; H315; H318	GHS03; GHS05; GHS07	
Acetophenone	Acute Tox. 4; Eye Irrit. 2	H302; H319	GHS07	
Citronellol	Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1B	H319; H317; H315	GHS07	
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-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Skin Sens. 1A; Aquatic Chronic 2	H317; H411	GHS07; GHS09	
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1	H302; H315; H317; H400; H410	GHS07	M (acute) = 1 M (chronic) = 1

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 (CO_2). 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.

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/m3)	STEL 15 min (mg/m3)	Comments
Oxydipropanol		67	-	MAC: DE
Benzaldehyde		5		MAC: HU, BE, LT
Benzyl acetate		5	-	
p-cresol		22		
Bornan-2-one	GB	13	19	-
Bornan-2-one		12	-	
butanedione	EC	-	-	0,1 ppm 8 h
Acetophenone		5		
d-Limonene		110	-	MAC: DE, CH, NL

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
Oxydipropanol	Dermal				84 mg/kg bw/day
	Inhalation				238 mg/m3
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one	Dermal	0,1011 mg/kg bw			1,73 mg/kg bw/day
	Inhalation				1,76 mg/m3
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno(5,6-c)pyran	Dermal				28,85 mg/kg bw/day
	Inhalation				5,29 mg/m3
Benzyl salicylate	Dermal				0,9 mg/kg bw/day
	Inhalation				3,17 mg/m3
Linalool	Dermal		5 mg/kg bw		2,5 mg/kg bw/day
	Inhalation		16,5 mg/m3		2,8 mg/m3
3-methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	Dermal				6,67 mg/kg bw/day
	Inhalation				92,75 mg/m3
3,7-Dimethylnona-1,6-dien-3-ol	Dermal	16 mg/kg bw	5,5 mg/kg bw	16 mg/kg bw/day	2,7 mg/kg bw/day
	Inhalation		18 mg/m3		3 mg/m3
Linalyl acetate	Dermal	0,8 mg/kg bw		0,8 mg/kg bw/day	2,5 mg/kg bw/day
	Inhalation				2,75 mg/m3
(Ethoxymethoxy)cyclododecane	Dermal				3,3 mg/kg bw/day

	Inhalation				23,5 mg/m3
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Dermal		6 mg/kg bw		1,4 mg/kg bw/day
	Inhalation		7 mg/m3		7 mg/m3
Piperonal	Dermal				0,5 mg/kg bw/day
	Inhalation				3,5 mg/m3
(Z)-3-hexenyl salicylate	Dermal				0,9 mg/kg bw/day
	Inhalation				1,59 mg/m3
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Dermal			5,510 mg/kg bw/day	0,42 mg/kg bw/day
	Inhalation				1,47 mg/m3
Coumarin	Dermal				0,79 mg/kg bw/day
	Inhalation				6,78 mg/m3
Benzaldehyde	Dermal			4,5 mg/kg bw/day	34,7 mg/kg bw/day
	Inhalation			6,3 mg/m3	10,4 mg/m3
Benzyl acetate	Dermal		12,5 mg/kg bw		6,25 mg/kg bw/day
	Inhalation		43,8 mg/m3		21,9 mg/m3
p-cresol	Dermal		1 mg/kg bw		0,5 mg/kg bw/day
	Inhalation		233 mg/m3		3,5 mg/m3
Citronellol	Dermal				45,8 mg/kg bw/day
	Inhalation				161,6 mg/m3
d-Limonene	Inhalation				33,3 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
Oxydipropanol	Dermal				51 mg/kg bw/day
	Inhalation				70 mg/m3
	Oral				24 mg/kg bw/day
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)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
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno(5,6-c)pyran	Dermal				14,43 mg/kg bw/day
	Inhalation				1,3 mg/m3
	Oral				0,75 mg/kg bw/day
Benzyl salicylate	Dermal				0,45 mg/kg bw/day
	Inhalation				0,78 mg/m3
	Oral				0,45 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
3-methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	Dermal				3,33 mg/kg bw/day
	Inhalation				23,15 mg/m3
	Oral				3,33 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
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

(Ethoxymethoxy)cyclododecane	Dermal				1,67 mg/kg bw/day
	Inhalation				5,8 mg/m3
	Oral				1,67 mg/kg bw/day
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Dermal		3 mg/kg bw		0,5 mg/kg bw/day
	Inhalation		1,5 mg/m3		1,5 mg/m3
	Oral		3 mg/kg bw		0,5 mg/kg bw/day
Piperonal	Dermal				0,25 mg/kg bw/day
	Inhalation				0,87 mg/m3
	Oral				0,25 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
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
Coumarin	Dermal				0,39 mg/kg bw/day
	Inhalation				1,69 mg/m3
	Oral				0,39 mg/kg bw/day
Benzaldehyde	Dermal			2,7 mg/kg bw/day	20,8 mg/kg bw/day
	Inhalation			1,3 mg/m3	2,1 mg/m3
	Oral				25 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
	Oral		6,25 mg/kg bw		3,125 mg/kg bw/day
p-cresol	Dermal		0,5 mg/kg bw		0,25 mg/kg bw/day
	Inhalation		150 mg/m3		0,75 mg/m3
	Oral		0,5 mg/kg bw		0,25 mg/kg bw/day
Citronellol	Dermal				27,5 mg/kg bw/day
	Inhalation				47,8 mg/m3
	Oral				13,75 mg/kg bw/day
d-Limonene	Inhalation				8,33 mg/m3
	Oral				4,76 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Oxydipropanol	Water	0,1 mg/l	0,01 mg/l	
	Sediment	0,238 mg/kg	0,0238 mg/kg	
	Intermittent water			1 mg/l
	STP			1000 mg/l
	Soil			0,0253 mg/kg
	Oral			313 mg/kg food
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno(5,6-c)pyran	Water	0,0044 mg/l	0,0004 mg/l	
	Sediment	2 mg/kg	0,394 mg/kg	
	Intermittent water			0,047 mg/l
	STP			1 mg/l
	Soil			0,31 mg/kg
	Oral			3,3 mg/kg food
Benzyl salicylate	Water	0,00103 mg/l	0,00010 mg/l	
	Sediment	0,583 mg/kg	0,0583 mg/kg	
	Intermittent water			0,01030 mg/l
	STP			10 mg/l
	Soil			0,116 mg/kg

	Oral			80 mg/kg food
Linalool	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
	Oral			7,8 mg/kg food
3-methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	Water	0,0019 mg/l	0,00019 mg/l	
	Sediment	0,067 mg/kg	0,0067 mg/kg	
	Intermittent water			0,019 mg/l
	STP			1 mg/l
	Soil			0,0534 mg/kg
	Oral			33,3 mg/kg food
Vanillin	Water	0,118 mg/l	0,0118 mg/l	
	Sediment	58,22 mg/kg	5,822 mg/kg	
	STP			10 mg/l
	Soil			11,54 mg/kg
3,7-Dimethylnona-1,6-dien-3-ol	Water	0,023 mg/l	0,0023 mg/l	
	Sediment	0,223 mg/kg	0,0223 mg/kg	
	Intermittent water			0,23 mg/l
	STP			10 mg/l
	Soil			0,031 mg/kg
	Oral			8,53 mg/kg food
Linalyl acetate	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
	Soil			0,115 mg/kg
(Ethoxymethoxy)cyclododecane	Water	0,0016 mg/l	0,00016 mg/l	
	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
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	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
Piperonal	Water	0,0025 mg/l	0,00025 mg/l	
	Sediment	0,0119 mg/kg	0,0012 mg/kg	
	Intermittent water			0,025 mg/l
	STP			10 mg/l
	Soil			0,00084 mg/kg
(Z)-3-hexenyl salicylate	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
	Oral			40 mg/kg food
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	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
	Oral			1,11 mg/kg food
Coumarin	Water	0,019 mg/l	0,0019 mg/l	
	Sediment	0,15 mg/kg	0,015 mg/kg	
	Intermittent water			0,0142 mg/l
	STP			6,4 mg/l
	Soil			0,018 mg/kg
	Oral			30,7 mg/kg food
Benzaldehyde	Water	0,00107 mg/l	0,00010 mg/l	
	Sediment	0,01044 mg/kg	0,00104 mg/kg	
	Intermittent water			0,0107 mg/l
	STP			7,59 mg/l
	Soil			0,00593 mg/kg
Benzyl acetate	Water	0,004 mg/l	0,0004 mg/l	
	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
p-cresol	Water	0,1 mg/l	0,01 mg/l	
	Sediment	0,85 mg/kg	0,085 mg/kg	
	Intermittent water			0,044 mg/l
	STP			1,65 mg/l
	Soil			0,111 mg/kg
Acetophenone	Water	0,0864 mg/l	0,00864 mg/l	
	Sediment	0,178 mg/kg	0,0178 mg/kg	
	Intermittent water			0,864 mg/l
	STP			10 mg/l
	Soil			0,155 mg/kg
Citronellol	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
d-Limonene	Water	0,0054 mg/l	0,0005 mg/l	
	Sediment	1,32 mg/kg	0,13 mg/kg	
	STP			1,8 mg/l
	Soil			0,262 mg/kg
	Oral			3,33 mg/kg food

8.2. Exposure controls

Engineering measures : Comply with standard precautionary measures for working with chemicals.
Hygienic measures : When using do not eat, drink or smoke.

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

:

Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. Suitable material: nitril. Indication of permeation breakthrough time: not known.

Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.

Hand protection	:	Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. 0,13 mm. Indication of permeation breakthrough time: not known.
Eye protection	:	Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES *

9.1. Information on basic physical and chemical properties

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	:	> 190 °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 (%): 0,7 (Linalyl acetate)
	:		Upper explosion limit in air (%): 12,6 Oxydipropanol
Oxidising properties	:	Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	:	Not applicable.	
Viscosity (20°C)	:	Not known.	
Viscosity (40°C)	:	Not relevant.	The product contains < 10% substances having an aspiration hazard.
Vapour pressure (20°C)	:	Not known.	
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: 62 %. 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 : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

Skin contact

- Acute toxicity : Calculated LD50: > 4251 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.
- 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 : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

Eye contact

- Corrosion/irritation : Irritant.

Ingestion

- Acute toxicity : Calculated LD50: > 3962 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Aspiration : Not expected to be an aspiration hazard. Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.
- Reprotoxicity : Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)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
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Skin sensitisation	5450 ug/cm2	OECD 429	Mouse
	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	-----	-----
Benzyl salicylate	NOAEL (development) - estimate	> 360 mg/kg.d	Read across	Rat
	NOAEL (fertility) - estimate	180 mg/kg.d	Read across	Rat
	NOAEL (oral) - estimate	> 360 mg/kg bw/d	Read across	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Eye irritation	Moderately irritant	-----	Rabbit
	Skin irritation	Non-irritant	-----	Rabbit
	Skin sensitisation	725 ug/cm2	OECD 429	Mouse
	LD50 (oral)	2227 mg/kg bw	-----	Rat
Linalool	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
	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
Vanillin	NOAEL (oral)	> 650 mg/kg bw/d	OECD 408	Rat
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	LD50 (oral)	> 3500 mg/kg bw	-----	Rat
	LD50 (dermal)	> 5010 mg/kg bw		Rabbit
	Skin sensitisation	Sensitizing.		Guinea pig
	Skin irritation	Non-irritant	-----	Rabbit
	Eye irritation	Slightly irritant	-----	Rabbit
	NOAEL (development, oral)	> 500 mg/kg bw/d	-----	Rat
	NOEL (carcinogenicity, oral)	Not carcinogenic	-----	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOEL (oral)	2500 mg/kg bw/d		Rat
3,7-Dimethylnona-1,6-dien-3-ol	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
	Skin irritation	Irritant	-----	Rabbit
Linalyl acetate	LC50 (inhalation) - estimate	> 5000 mg/m3	-----	Rat
		1000 mg/kg bw/d	OECD 414	Rat

	NOAEL (development, oral)	> 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
	Skin irritation	Non-irritant	-----	Human
	LC50 (inhalation)	> 2740 mg/m3	-----	Mouse
	LD50 (oral)	13934 mg/kg bw	-----	Rat
(Ethoxymethoxy)cyclododecane	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
	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
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	NOAEL (oral)	300 mg/kg bw/d	OECD 422	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (fertility, oral)	> 300 mg/kg bw/d	OECD 422	Rat
	Skin irritation	Non-irritant	OECD 404	Rabbit
	LD50 (dermal)	2000 mg/kg bw		Rabbit
	LD50 (oral)	5000 mg/kg bw	-----	Rat
	Eye irritation - estimate	Irritant	-----	-----
Piperonal	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rat
	LD50 (oral)	2700 mg/kg bw	OECD 401	Rat
	NOAEL (oral)	500 mg/kg bw/d	OECD 408	Rat
	NOEL (carcinogenicity, oral)	250 mg/kg bw/d	OECD 453	Rat
	Genotoxicity - in vitro	Not genotoxic	OECD 473	Chinese Hamster
	Genotoxicity - in vivo	Not genotoxic	OECD 478	Mouse
	Skin irritation	Slightly irritant	-----	Guinea pig
	Eye irritation	Non-irritant	OECD 405	Rabbit
	NOAEL (fertility, oral)	250 mg/kg bw/d	OECD 478	Rat
	Skin sensitisation	Sensitizing.		Guinea pig
	NOAEL (development, oral)	250 mg/kg bw/d	OECD 421	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	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
	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
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
Citronellol	Genotoxicity - in vitro	Not genotoxic		
	Skin sensitisation	10875 ug/cm2	OECD 429	Mouse
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	NOAEL (oral)	> 50 mg/kg bw/d		Rat
	Skin irritation	Moderately irritant		Rabbit
	LD50 (oral)	3450 mg/kg bw	-----	Rat
	LD50 (dermal)	2650 mg/kg bw		Rabbit
	NOAEL (fertility, dermal)	300 mg/kg bw/d	OECD 421	Rat
	NOAEL (developmental toxicity, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	Skin irritation	Moderately irritant	Patch test	Human
	Eye irritation	Moderately irritant		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		
1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	NOAEL (oral)	> 10 mg/kg bw/d	-----	-----
	LD50 (oral)	2000 mg/kg bw	-----	Rat
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	Genotoxicity - estimate	Not genotoxic	Read across	-----
	NOAEL (development) - estimate	Not teratogenic	Read across	-----
	NOAEL (fertility) - estimate	Not reprotoxic	Read across	-----
	NOEL (carcinogenicity) - estimate	Not carcinogenic	Read across	
	NOAEL (dermal) - estimate	50 mg/kg bw/d	Read across	Rat
	NOAEL (oral) - estimate	10 mg/kg bw/d	Read across	Rat

	Mutagenicity LD50 (oral)	Negative 1821 mg/kg bw	OECD 471	Salmonella typhimurium Mouse

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): 2 mg/l. Calculated EC50 (waterflea): < 1 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

12.4. Mobility in soil

Mobility : Adsorbs to soil and has low mobility.

12.5. Results of PBT and vPvB 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
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one	LC50 (fish)	1,3 mg/l	OECD 203	-----
	IC50 (algea)	> 2,6 mg/l	OECD 201	-----
	EC50 (waterflea)	1,38 mg/l	OECD 202	-----
	Log P(ow)	5,23		
	BCF	600		
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno(5,6-c)pyran	Ultimate aerobic biodegradation (%)	2 %	OECD 301 B	
	IC50 (algea)	> 0,85 mg/l	OECD 201	Pseudokirchnerella subcapitata
	NOEC (waterflea) - chronic	0,111 mg/l.d	OECD 202	Daphnia magna
	LC50 (fish)	1,36 mg/l	OECD 204	Lepomis macrochirus
	NOEC (fish)	0,068 mg/l.d	OECD 210	Pimephales promelas
	EC50 (waterflea)	0,47 mg/l	-----	-----
	Log P(ow)	5,9		
	BCF	1584		
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Ultimate aerobic biodegradation (%)	0 %	OECD 301 F	
	IC50 (algea)	2,5 mg/l		Pseudokirchnerella subcapitata
	EC50 (waterflea)	0,63 mg/l	OECD 202	Daphnia magna
	LC50 (fish)	1,1 mg/l	-----	Lepomis macrochirus
	Log P(ow)	4,44		
(E)-oxacyclohexadec-12-en-2-one, (E)-oxacyclohexadec-13-en-2-one	EC50 (waterflea)	0,48 mg/l	OECD 202	Daphnia magna

	LC50 (fish)	2,0 mg/l	OECD 203	Oncorhynchus mykiss
	NOEC (fish)	0,52 mg/l	OECD 203	Oncorhynchus mykiss
	Log P(ow)	5,02		
(Z)-3-hexenyl salicylate	IC50 (algea)	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
	Ultimate aerobic biodegradation (%)	89 %	OECD 301 F	
	Log P(ow)	4,57		
Alpha-Cedrene	LC50 (fish) - estimate	0,055 mg/l	-----	-----
	EC50 (waterflea) - estimate	> 0,01 mg/l		
	Log P(ow)	6,38		
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
	Log P(ow)	4,38		

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues, impregnated wipes and non-empty pack as hazardous waste.

Additional warning : None.

Waste water discharge : Do not dispose into the environment, in drains or in water courses.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION *

14.1. UN number

UN nr. : UN 3082

14.2. UN proper shipping name

Transport name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one ; 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one)

Transport name (IMDG, IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one ; 3-Methyl-4-(2,6,6-trimethyl-2-cyclohexenyl)-3-buten-2-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
Tunnel restriction code	:	C/D
	:	

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

IMDG (sea)

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

IATA (air)

Class : 9

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
GHS	:	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	:	International Air Transport Association
IBC code	:	International Bulk Chemical Code
IMDG	:	International Maritime Dangerous Goods Code
LD50/LC50	:	Lethal Dose/Concentration for 50% of a population
MAC	:	Maximum Allowable Concentration
MARPOL	:	International Convention for the Prevention of Pollution From Ships
NO(A)EL	:	No Observed (Adverse) Effect Level
OECD	:	Organisation for Economic Co-operation and Development
PBT	:	Persistent, Bioaccumulative and Toxic
PC	:	Chemical product category
PT	:	Product type
REACH	:	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	:	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	:	Sewage Treatment Plant
SU	:	Sector of Use
TWA/STEL	:	Time-Weighted Average/Short Term Exposure Limit
UN	:	United Nations
VOC	:	Volatile Organic Compounds
vPvB	:	Very Persistent and Very Bioaccumulative

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

Skin Irrit. 2	:	Calculation method
Eye Irrit. 2	:	Calculation method
Skin Sens. 1	:	Calculation method
Aquatic Chronic 1	:	Calculation method

Full text of hazard classes mentioned in section 3:

Flam. Liq. 2	:	Flammable liquid, category 2.
Flam. Liq. 3	:	Flammable liquid, hazard category 3.
Flam. Sol. 1	:	Flammable solid, category 1.
Acute Tox. 3	:	Acute toxicity, category 3.
Acute Tox. 4	:	Acute toxicity, category 4.
Skin Corr. 1A/B/C	:	Skin corrosive, category 1A/B/C.
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	:	Skin sensitization, category 1.
STOT SE 2	:	Specific target organ toxicity after single exposure, category 2.
STOT SE 3	:	Specific target organ toxicity after single exposure, category 3.
Asp. Tox. 1	:	Aspiration hazard, category 1.
Aquatic Chronic 1	:	Hazardous to the aquatic environment — Chronic category 1.
Aquatic Chronic 2	:	Hazardous to the aquatic environment — Chronic category 2.
Aquatic Chronic 3	:	Hazardous to the aquatic environment — Chronic category 3.
Aquatic Acute 1	:	Hazardous to the aquatic environment — Acute category 1.

Full text of H-phrases mentioned in section 3:

H225	Highly flammable liquid and vapour.

H226	Flammable liquid and vapour.
H228	Flammable solid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Number format : "," used as decimal separator.

End of safety data sheet.