

According to Regulation (EU) No 2015/830

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

#### 1.1. Product identifier

Product name : ALEFIA PARFUMCARD NARBONNE

Product code : ALE-015

#### 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 +44 344 892 0111 (24/7)

### SECTION 2 HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

CLP classification : Skin irritation, category 2. Eye irritation, category 2. Skin sensitization, category 1. Hazardous to

(1272/2008/EC) the aquatic environment — Acute 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 : 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: 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one; alpha-Hexylcinnamaldehyde; 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one; Citronellol; Coumarin; Linalool; 1-(5,5-dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one; (Z)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)pent-4-en-1-one;

cyclohexen-1-yl)-2-buten-1-one; d-Limonene; 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	CAS nr.	EC number	Remark	REACH nr.
	(w/w) (%)				
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	25 - < 50	54464-57-2	259-174-3		01-2119489989-04
tetramethyl-2-naphtyl)ethan-1-one					
Benzyl benzoate	10 - < 25	120-51-4	204-402-9		01-2119976371-33
alpha-Hexylcinnamaldehyde	5 - < 10	101-86-0	202-983-3		01-2119533092-50
2,6-Dimethyloct-7-en-2-ol	5 - < 10	18479-58-8	242-362-4		01-2119457274-37
1,2,3,5,6,7-hexahydro-1,1,2,3,3-	2,5 - < 5	33704-61-9	251-649-3		01-2119977131-40
pentamethyl-4H-inden-4-one					
Linalyl acetate	1 - < 5	115-95-7	204-116-4		01-2119454789-19
Citronellol	1 - < 5	106-22-9	203-375-0		01-2119453995-23
Coumarin	0,1 - < 1	91-64-5	202-086-7		01-2119949300-45
Oxydipropanol	0,1 - < 1	25265-71-8	246-770-3	MAC	
Linalool	0,1 - < 1	78-70-6	201-134-4		01-2119474016-42
Pentyl salicylate	0,25 - < 1	2050-08-0	218-080-2		01-2120771342-58
(±) trans—3,3-dimethyl-5-(2,2,3-	0,25 - < 1	107898-54-4	411-580-3		01-0000000316-81
trimethyl-cyclopent-3-en-1-yl)-pent-4-					
en-2-ol					
Reaction mass of: (E)-	0,25 - < 1	34902-57-3	422-320-3		01-0000016883-62
oxacyclohexadec-12-en-2-one; (E)-					
oxacyclohexadec-13-en-2-one					
1-(5,5-dimethyl-1-cyclohexen-1-	0,1 - < 1	56973-85-4	260-486-7		
yl)pent-4-en-1-one					
(Z)-1-(2,6,6-trimethyl-2-cyclohexen-1-	0,1 - < 1	23726-94-5	245-845-8		
yl)-2-buten-1-one					
2-Ethyl-4-(2,2,3-trimethyl-3-	0,25 - < 1	28219-61-6	248-908-8		01-2119529224-45
cyclopenten-1-yl)-2-buten-1-ol					
d-Limonene	0,25 - < 1	5989-27-5	227-813-5		01-2119529223-47
Citral	0,1 - < 1	5392-40-5	226-394-6		01-2119462829-23

Substance name	Hazard Class	H-phrases	Pictograms	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	Skin Irrit. 2; Skin Sens	H315; H317; H410	GHS07; GHS09	M (chronic) = 1
tetramethyl-2-naphtyl)ethan-1-one	1B; Aquatic Chronic 1			

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Benzyl benzoate	Acute Tox. 4; Aquatic Acute 1; Aquatic	H302; H400; H411	GHS07; GHS09	M (acute) = 1
alpha-Hexylcinnamaldehyde	chronic 2 Skin Sens. 1B; Aquatic Acute 1; Aquatic	H317; H400; H411	GHS07; GHS09	M (acute) = 1
2,6-Dimethyloct-7-en-2-ol	Chronic 2 Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	
1,2,3,5,6,7-hexahydro-1,1,2,3,3-		H315; H317; H319;	GHS07; GHS09	
pentamethyl-4H-inden-4-one	1B; Eye Irrit. 2; Aquatic Chronic 2	I control of the cont	011007, 011003	
Linalyl acetate	•	H315; H319	GHS07	
Citronellol	Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1B		GHS07	
Coumarin	Acute Tox. 4; Skin Sens. 1B; Aquatic Chronic 3	H302; H317; H412	GHS07	
Oxydipropanol				
Linalool	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1B	H315; H317; H319	GHS07	
Pentyl salicylate	Aquatic Chronic 1; Aquatic Acute 1	H410	GHS09	M (acute) = 1
(±) trans—3,3-dimethyl-5-(2,2,3-	Skin Irrit. 2; Aquatic	H315; H400; H410	GHS07; GHS09	M (acute) = 1
trimethyl-cyclopent-3-en-1-yl)-pent-4-	Acute 1; Aquatic			M (chronic) = 1
en-2-ol	Chronic 1			
Reaction mass of: (E)-	Aquatic Acute 1;	H400; H410	GHS09	M (acute) = 1
oxacyclohexadec-12-en-2-one; (E)- oxacyclohexadec-13-en-2-one	Aquatic Chronic 1	·		M (chronic) = 1
1-(5,5-dimethyl-1-cyclohexen-1- yl)pent-4-en-1-one	Skin Sens. 1B; Aquatic Chronic 2	H317; H411	GHS07; GHS09	
(Z)-1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-2-buten-1-one	Acute Tox. 4; Skin Sens. 1B	H302; H317	GHS07	
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
d-Limonene		H226; H304; H315; H317; H400; H410	GHS02; GHS07; GHS08; GHS09	M (acute) = 1
Citral		H315; H317; H319	GHS07	

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.

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: Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth Ingestion

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.

#### **FIRE-FIGHTING MEASURES SECTION 5**

### 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 Carbon monoxide may be evolved if incomplete combustion occurs.

decomposition products

#### 5.3. Advice for firefighters

Special protective : Use adequate respiratory equipment in case of insufficient ventilation.

equipment for fire-fighters

#### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

: Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with Personal precautions

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**

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#### 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 : None known.

packaging

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	STEL 15 min	Comments
		(mg/m3)	(mg/m3)	
Oxydipropanol		67	-	
d-Limonene		110	-	

### Derived no-effect level (DNEL) for workers:

Chemical name	Route of	DNEL, short-te	DNEL, short-term		DNEL, long-term	
	exposure					
		Local effect	Systemic effect	Local effect	Systemic effect	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	Dermal	0,1011 mg/kg			1,73 mg/kg bw/day	
tetramethyl-2-naphtyl)ethan-1-one		bw				
	Inhalation				1,76 mg/m3	
Benzyl benzoate	Dermal				2,6 mg/kg bw/day	
	Inhalation		102 mg/m3		5,1 mg/m3	
alpha-Hexylcinnamaldehyde	Dermal	0,525 mg/kg		0,525 mg/kg bw/	18,2 mg/kg bw/day	
		bw		day		
	Inhalation	6,28 mg/m3			0,078 mg/m3	
2,6-Dimethyloct-7-en-2-ol	Dermal				20,8 mg/kg bw/day	
	Inhalation				73,5 mg/m3	
1,2,3,5,6,7-hexahydro-1,1,2,3,3-	Dermal			5,510 mg/kg bw/	0,42 mg/kg bw/day	
pentamethyl-4H-inden-4-one				day		
	Inhalation				1,47 mg/m3	
Linalyl acetate	Dermal	0,8 mg/kg bw		0,8 mg/kg bw/	2,5 mg/kg bw/day	
				day		
	Inhalation				2,75 mg/m3	
Citronellol	Dermal				45,8 mg/kg bw/day	
	Inhalation				161,6 mg/m3	
Coumarin	Dermal				0,79 mg/kg bw/day	
	Inhalation				6,78 mg/m3	
Oxydipropanol	Dermal				84 mg/kg bw/day	
	Inhalation				238 mg/m3	

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Linalool	Dermal	5 mg/kg bw	2,5 mg/kg bw/day
İ	Inhalation	16,5 mg/m3	2,8 mg/m3
Pentyl salicylate	Dermal		0,9 mg/kg bw/day
	Inhalation		3,17 mg/m3
2-Ethyl-4-(2,2,3-trimethyl-3-	Dermal	6 mg/kg bw	1,4 mg/kg bw/day
cyclopenten-1-yl)-2-buten-1-ol			
	Inhalation	7 mg/m3	7 mg/m3
d-Limonene	Inhalation		33,3 mg/m3
Citral	Dermal		1,7 mg/kg bw/day
İ	Inhalation	i i	9 mg/m3

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of	DNEL, short-te	rm	DNEL, long-term	
	exposure				
		Local effect	Systemic effect	Local effect	Systemic effect
l-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	Dermal	0,0506 mg/kg			0,86 mg/kg bw/day
etramethyl-2-naphtyl)ethan-1-one		bw			
	Inhalation	İ			0,43 mg/m3
	Oral				0,25 mg/kg bw/day
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
alpha-Hexylcinnamaldehyde	Dermal	0,0787 mg/kg		0,0787 mg/kg	9,11 mg/kg bw/day
		bw		bw/day	,
	Inhalation	4,71 mg/m3		J. Waay	0,019 mg/m3
	Oral	1,,, , , , , , , , , , ,			0,056 mg/kg bw/day
2,6-Dimethyloct-7-en-2-ol	Dermal				12,5 mg/kg bw/day
-,0 Difficulty100t-7-011-2-01	Inhalation				21,7 mg/m3
	Oral				12,5 mg/kg bw/day
1 2 3 5 6 7 hovehydro 1 1 2 2 2				2 241 ma/ka bu/	
1,2,3,5,6,7-hexahydro-1,1,2,3,3-	Dermal				0,25 mg/kg bw/day
pentamethyl-4H-inden-4-one	labalati			day	0.44 mag/mg 0
	Inhalation				0,44 mg/m3
	Oral				0,25 mg/kg bw/day
inalyl acetate	Dermal	0,8 mg/kg bw	1	0,8 mg/kg bw/	1,25 mg/kg bw/day
				day	
	Inhalation				0,68 mg/m3
	Oral				0,2 mg/kg bw/day
Citronellol	Dermal				27,5 mg/kg bw/day
	Inhalation				47,8 mg/m3
	Oral				13,75 mg/kg bw/day
Coumarin	Dermal				0,39 mg/kg bw/day
	Inhalation				1,69 mg/m3
	Oral				0,39 mg/kg bw/day
Oxydipropanol	Dermal				51 mg/kg bw/day
	Inhalation				70 mg/m3
	Oral				24 mg/kg bw/day
inalool	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
Pentyl salicylate	Dermal		',= '''g''\\\		0,45 mg/kg bw/day
only cancylate	Inhalation				0,78 mg/m3
	Oral				0,45 mg/kg bw/day
Ethyl 4 (2.2.3 trimothyl 3	Dermal		3 mg/kg bw		0,5 mg/kg bw/day
2-Ethyl-4-(2,2,3-trimethyl-3-	Demial		ing/kg bw		o,5 mg/kg bw/day
cyclopenten-1-yl)-2-buten-1-ol	Inholotica		1 E ma/==2		1 5 mg/m2
	Inhalation		1,5 mg/m3		1,5 mg/m3
	Oral		3 mg/kg bw		0,5 mg/kg bw/day

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d-Limonene	Inhalation	8,33 mg/m3
	Oral	4,76 mg/kg bw/day
Citral	Dermal	1 mg/kg bw/day
	Inhalation	2,7 mg/m3
	Oral	0,6 mg/kg bw/day

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
alpha-Hexylcinnamaldehyde	Water	0,03 mg/l	0,003 mg/l	
	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
2,6-Dimethyloct-7-en-2-ol	Water	0,0278 mg/l	0,0027 mg/l	o,o mg/kg lood
.,0-Diffictify10ct-7-Cf1-2-01	Sediment	0,594 mg/kg	0,0594 mg/kg	
	Intermittent water	0,594 mg/kg	0,0394 mg/kg	0,278 mg/l
	STP			
	Soil			10 mg/l
				0,103 mg/kg
1005071	Oral	0.004	0	111 mg/kg food
1,2,3,5,6,7-hexahydro-1,1,2,3,3-	Water	0,004 mg/l	0 mg/l	
entamethyl-4H-inden-4-one	<b>.</b>			
	Sediment	0,0991 mg/kg	0,00991 mg/kg	
	STP			10 mg/l
	Soil			0,0174 mg/kg
	Oral			1,11 mg/kg food
₋inalyl 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
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
Coumarin	Water	0,019 mg/l	0,0019 mg/l	3 3
	Sediment	0,15 mg/kg	0,015 mg/kg	
	Intermittent water	o, . o g g	j	0,0142 mg/l
	STP			6,4 mg/l
	Soil			0,018 mg/kg
	Oral			30,7 mg/kg food
Oxydipropanol	Water	0,1 mg/l	0,01 mg/l	50,7 mg/kg 1000
2xyulpi oparioi	Sediment	0,1 mg/l 0,238 mg/kg	0,0238 mg/kg	
	Intermittent water	0,230 mg/kg	0,0230 mg/kg	1 mg/l
	STP			
				1000 mg/l
	Soil			0,0253 mg/kg
*	Oral	0.0		313 mg/kg food
inalool	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

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Pentyl salicylate	Soil Oral Water Sediment STP	0,077 mg/l 0,389 mg/kg	0,0077 mg/l 0,039 mg/kg	0,327 mg/kg 7,8 mg/kg food
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Sip Soil Oral Water	0,00063 mg/l	0,000063 mg/l	10 mg/l 1,786 mg/kg 80 mg/kg food
eyelopemen-1-yi)-2-buten-1-oi	Sediment STP Soil Oral	0,044 mg/kg	0,0044 mg/kg	1 mg/l 0,0084 mg/kg 1 mg/kg food
d-Limonene	Water Sediment STP Soil Oral	0,0054 mg/l 1,32 mg/kg	0,0005 mg/l 0,13 mg/kg	1,8 mg/l 0,262 mg/kg 3,33 mg/kg food
Citral	Water Sediment Intermittent water STP Soil	0,00678 mg/l 0,125 mg/kg	0,000678 mg/l 0,0125 mg/kg	0,0678 mg/l 1,6 mg/l 0,0209 mg/kg

#### 8.2. Exposure controls

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

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

### Personal protective equipment:

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



Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN

365/367 resp. 345. Suitable material: nitril. Indication of permeation breakthrough time: 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.

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: Not soluble. Solubility in water Partition coefficient (n-: Not known.

octanol/water)

: > 100 °C Flash point

Flammability (solid, gas) Liquid. See flashpoint. : Not applicable.

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 (%): 0,7 (Linalyl acetate)

Upper explosion limit in air (%): 4,3

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.

(air = 1)

Vapour pressure (20°C) Not known.

Vapour density (20°C) : > 1

Relative density (20°C) : 0,9 g/ml

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 : Not known.

products

#### **SECTION 11 TOXICOLOGICAL INFORMATION**

### 11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

: Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 56 %. ATE: > 5 mg/l. Not classified -Acute toxicity

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.

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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: > 4929 mg/kg.bw. Ingredients of unknown toxicity: 7 %. 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.

Eve contact

Corrosion/irritation : Irritant.

Ingestion

Acute toxicity : Calculated LD50: > 3261 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. 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 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-	Skin irritation	Non-irritant		Rabbit
tetramethyl-2-naphtyl)ethan-1-one				
, , ,	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
alpha-Hexylcinnamaldehyde	NOAEL (development, oral)	100 mg/kg bw/d	OECD 421	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Eye irritation	Non-irritant		Rabbit
	NOAEL (oral) - estimate	30 mg/kg bw/d	Read across	Rat
	LD50 (dermal)	> 3000 mg/kg bw	OECD 402	Rabbit
	LC50 (inhalation)	> 5000 mg/m3	OECD 403	Rat
	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
2,6-Dimethyloct-7-en-2-ol	NOAEL (development) - estimate	1000 mg/kg.d	Read across	Rat
	Mutagenicity	Not mutagenic	OECD 471	

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1	Genotoxicity - in vitro	Not genotoxic	OECD 476	ĺ
	NOAEL (oral) -	500 mg/kg bw/d	Read across	Rat
	estimate	Joseg a		1.55
	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
1,2,3,5,6,7-hexahydro-1,1,2,3,3-	Genotoxicity - in vitro	Not genotoxic	OECD 476	Mouse
pentamethyl-4H-inden-4-one	Genotoxicity - in vitro	I vot genotoxie	0200 470	Modse
pentamethyr-411-mden-4-one	LD50 (oral)	> 2225 ma/ka hw	OECD 401	Rat
		> 2325 mg/kg bw	OECD 401	Salmonella typhimurium
	Mutagenicity	Negative	OECD 471	
	Skin irritation	Irritant		Human
	Eye irritation	Irritant		
	NOAEL (oral)	10 mg/kg bw/d	OECD 408	Rat
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	NOAEL (development,	115 mg/kg bw/d	OECD 421	Rat
	oral)			
	NOAEL (fertility, oral)	115 mg/kg bw/d	OECD 421	Rat
Linalyl acetate		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
	· ·	> 1000 mg/kg bw/d	OECD 474	Rat
	NOAEL (development,	> 1000 mg/kg bw/u	00000414	Rat
	oral)	5000 mg/m2		Det
	LC50 (inhalation) -	> 5000 mg/m3		Rat
0.4	estimate	<b>.</b>		
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,	300 mg/kg bw/d	OECD 421	Rat
	dermal)			
	NOAEL (developmental	> 300 mg/kg bw/d	OECD 421	Rat
	toxicity, dermal)			
	Skin irritation	Moderately irritant	Patch test	Human
	Eye irritation	Moderately irritant		Rabbit
Coumarin	Skin sensitisation	> 12500 ug/cm2	OECD 429	Mouse
	NOAEL (development,	> 115 mg/kg bw/d		Mouse
	oral)	3.322		
	Eye irritation	Non-irritant		Rabbit
	LD50 (oral)	680 mg/kg bw		Rat
	NOAEL (oral)	> 138,3 mg/kg bw/d		Mouse
	Skin irritation	Non-irritant		Rabbit
	Genotoxicity - in vitro	1	OECD 476	Lannir
	raenoioxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium

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	lo , , , , , ,	L 405 " ' ' '	longs :=:	h a
		> 105 mg/kg bw/d	OECD 474	Mouse
	NOEL (carcinogenicity)	inot carcinogenic		
Lingland	- estimate	005		D-4
Linalool	1	365 mg/kg bw/d		Rat
	oral)	N	0500 105	D. H. H.
	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
	NOAEL (oral)	117 mg/kg bw/d		Rat
1-(5,5-dimethyl-1-cyclohexen-1-	LD50 (oral)	> 5000 mg/kg bw	1	Rat
yl)pent-4-en-1-one				L
	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
(Z)-1-(2,6,6-trimethyl-2-cyclohexen-1-	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
yl)-2-buten-1-one				
	LD50 (oral)	1670 mg/kg bw		Rat
	Skin sensitisation	Sensitizing.		
d-Limonene	Genotoxicity - in vivo	> 2000 mg/kg bw/d		Rat
		> 300 mg/kg bw/d	OECD 451	Rat
	oral)			
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Mutagenicity	Negative	OECD 471	
	Skin sensitisation	10075 ug/cm2	OECD 429	Mouse
	NOAEL (development,	600 mg/kg bw/d		Rat
	oral)			
	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
Citral	NOAEL (fertility, oral)	> 1000 mg/kg bw/d	OECD 421	Rat
	Genotoxicity - in vivo	Negative	OECD 474	Mouse
	Eye irritation	Slightly irritant	OECD 405	Rabbit
	Skin irritation	Moderately irritant		Rabbit
	Skin irritation	Irritant		Human
	Skin sensitisation	Sensitizing.	OECD 406	Guinea pig
	NOAEL (developmental	423 mg/m3	<b> </b>	Rat
	toxicity, inh.)			
	NOEL (carcinogenicity,	> 100 mg/kg bw/d	OECD 453	Rat
	oral)		1	
	Mutagenicity	Negative	OECD 471	
	LD50 (oral)	4960 mg/kg bw	<b> </b>	Rat
	Genotoxicity - in vitro	Not genotoxic	1	
	NOAEL (oral)	833 mg/kg bw/d		Rat
İ		2250 mg/kg bw		Rabbit
		200 mg/kg bw/d	OECD 421	Rat

## SECTION 12 ECOLOGICAL INFORMATION

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### 12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Very toxic to aquatic organisms. Calculated LC50 (fish): 2 mg/l. Calculated EC50 (waterflea):

Contains 2 % 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
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	EC50 (waterflea)	1,38 mg/l	OECD 202	
tetramethyl-2-naphtyl)ethan-1-one				
	IC50 (algea)	> 2,6 mg/l	OECD 201	
	LC50 (fish)	1,3 mg/l	OECD 203	
	Log P(ow)	5,23		
	BCF	600		
Benzyl benzoate	IC50 (algea)	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	94 %	OECD 301 F	
	biodegradation (%)			
	LC50 (fish)	2,32 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	3,09 mg/l	OECD 202	Daphnia magna
	NOEC (waterflea) -	0,258 mg/l.d	OECD 211	Daphnia magna
	chronic			
	Log P(ow)	3,97		
	BCF	24		
alpha-Hexylcinnamaldehyde	NOEC (fish)	0,93 mg/l	OECD 203	Pimephales promelas
	LC50 (fish)	1,7 mg/l	OECD 203	Pimephales promelas
	Ultimate aerobic	97 %	OECD 301 F	
	biodegradation (%)			
	IC50 (algea)	> 0,32 mg/l	OECD 201	Desmodesmus
				subspicatus
	Log P(ow)	5,3		
Pentyl salicylate	EC50 (waterflea)	2,8 mg/l		Daphnia magna
	LC50 (fish)	1,34 mg/l		Brachydanio rerio
	Ultimate aerobic	86 %	OECD 301 F	
	biodegradation (%)			
	Log P(ow)	4,4000		
	BCF	55		

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(±) trans—3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol	LC50 (fish)	1,2 mg/l	OECD 203	
	EC50 (waterflea)	1 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	7 %	OECD 301 C	
	Log P(ow)	4,99		
Reaction mass of: (E)- oxacyclohexadec-12-en-2-one; (E)-	NOEC (fish)	0,52 mg/l	OECD 203	Oncorhynchus mykiss
oxacyclohexadec-13-en-2-one				
	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		
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		· .
d-Limonene	LC50 (fish)	0,720 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	0,36 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic	> 92 %		
	biodegradation (%)			
	NOEC (waterflea) -	0,15 mg/l.d		Daphnia magna
	chronic			
	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.

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; Pentyl salicylate)

Transport name (IMDG, : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-

IATA) Octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one ; Pentyl salicylate )

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

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### 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 : No

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:

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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 Irrit. 2 : Eye irritation, category 2.

Skin Sens. 1/1A/1B : Skin sensitization, category 1/1A/1B. Asp. Tox. 1 : Aspiration hazard, category 1.

Aquatic Chronic 1 : Hazardous to the aquatic environment — Chronic category 1.

Aquatic Chronic 2 : Hazardous to the aquatic environment — Chronic category 2.

Aquatic Chronic 3 : Hazardous to the aquatic environment — Chronic category 3.

Aquatic Acute 1 : Hazardous to the aquatic environment — Acute category 1.

### Full text of H-phrases mentioned in section 3:

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.

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.

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