

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 : SHELL AIRFRESHENER WALK ON THE BEACH

Product code : CRX781, AL53C

#### 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 : Kemetyl Nederland BV

Industrieweg 30

3762 EK Soest, The Netherlands

Telephone : +31-35 7604900
E-mail : msds@kemetyl.com
Website : www.kemetyl.com

#### 1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

NL - Telephone : +31-35-6099310 (During office hours only)

#### SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

(1272/2008/EC) Chronic category 2.

Human health hazards : Causes skin irritation. May cause an allergic skin reaction. Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives.

Environmental hazards : Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :





Signal word : Warning

H- and P-phrases : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P280 gloves Wear protective gloves.

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container to an official chemical waste depot.

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Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:

Hazard pictograms

**!**> <

Signal word : Warning

H- and P-phrases : H317 May cause an allergic skin reaction.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.
P280 gloves Wear protective gloves.

P273 Avoid release to the environment.

P391 Collect spillage.

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; dl-Limonene; 7-Hydroxycitronellal; Coumarin; Alpha-methyl-1,3-benzodioxole-5-propionaldehyde; Pin-2(10)-ene; 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one; Linalool; Linalyl acetate; 3-(p-Ethylphenyl) -2,2-dimethylpropionaldehyde; 2,2,6-Trimethyl-alpha-propylcyclohexanepropanol; Pin-2(3)-ene;

Eugenol; Cinnamaldehyde.

#### 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	CAS nr.	EC number	Remark	REACH nr.
	(w/w) (%)				
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	5 - < 10	54464-57-2	259-174-3		01-2119489989-04
tetramethyl-2-naphtyl)ethan-1-one					
2,6-Dimethyloct-7-en-2-ol	5 - < 10	18479-58-8	242-362-4	İ	01-2119457274-37
dl-Limonene	1 - < 5	138-86-3	205-341-0		
7-Hydroxycitronellal	1 - < 5	107-75-5	203-518-7	İ	
Coumarin	1 - < 5	91-64-5	202-086-7		01-2119949300-45
Alpha-methyl-1,3-benzodioxole-5-pro-	1 - < 2,5	1205-17-0	214-881-6		01-2120740119-58
pionaldehyde					
Pin-2(10)-ene	0,1 - < 1	127-91-3	204-872-5	İ	
Allyl (cyclohexyloxy)acetate	0,1 - < 1	68901-15-5	272-657-3		
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2	0,1 - < 1	57378-68-4	260-709-8		
-buten-1-one					
Linalool	0,1 - < 1	78-70-6	201-134-4	İ	01-2119474016-42
Linalyl acetate	0,1 - < 1	115-95-7	204-116-4	İ	01-2119454789-19
3-(p-Ethylphenyl)-2,2-dimethylpropi-	0,1 - < 1	67634-15-5	266-819-2		
onaldehyde					
2,2,6-Trimethyl-alpha-propylcyclohexa-	0,1 - < 1	70788-30-6	274-892-7		
nepropanol					
Pin-2(3)-ene	0,25 - < 1	80-56-8	201-291-9		
Eugenol	0,1 - < 1	97-53-0	202-589-1		

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Cinnamaldehyde 0.01 - < 0.1104-55-2 203-213-9 Substance name Hazard Class H-phrases Pictograms 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Aquatic Chronic 1; Skin H315; H317; H410 GHS07; GHS09 M (chronic) = 1 tetramethyl-2-naphtyl)ethan-1-one Irrit. 2; Skin Sens. 1B 2,6-Dimethyloct-7-en-2-ol Eye Irrit. 2; Skin Irrit. 2 H315; H319 GHS07 dl-Limonene GHS02; GHS07; M (acute) = 1 Aquatic Acute 1; H226; H304; H315; Aguatic Chronic 1; Asp. H317; H400; H410 IGHS09 Tox. 1; Flam. Liq. 3; Skin Irrit. 2; Skin Sens. Eve Irrit. 2; Skin Sens. H317; H319 GHS07 7-Hydroxycitronellal Acute Tox. 4; Aquatic GHS07 Coumarin H302; H317; H412 Chronic 3; Skin Sens. Aguatic Chronic 2: Alpha-methyl-1,3-benzodioxole-5-pro-H317; H361fd; H411 GHS07; GHS08; Repr. 2; Skin Sens. 1B pionaldehyde IGHS09 Pin-2(10)-ene Aquatic Acute 1; H226; H304; H315; GHS02; GHS07; M (acute) = 1 Aquatic Chronic 1; Asp. H317; H400; H410 GHS08; GHS09 M (chronic) = 1 Tox. 1; Flam. Liq. 3; Skin Irrit. 2; Skin Sens. Acute Tox. 4; Aquatic GHS07; GHS09 M (acute) = 1 Allyl (cyclohexyloxy)acetate H302; H400; H410 M (chronic) = 1 Acute 1; Aquatic Chronic 1 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2 Acute Tox. 4; Aquatic H302; H315; H317; GHS07 M (acute) = 1 Acute 1; Aquatic M (chronic) = 1 buten-1-one H400; H410 Chronic 1; Skin Irrit. 2; Skin Sens. 1A Linalool Eye Irrit. 2; Skin Irrit. 2; H315; H317; H319 GHS07 Skin Sens. 1B Linalyl acetate Eye Irrit. 2; Skin Irrit. 2; H315; H317; H319 GHS07 Skin Sens. 1B GHS07; GHS09 M (acute) = 1 3-(p-Ethylphenyl)-2,2-dimethylpropi-Skin Irrit. 2; Skin Sens. H315; H317; H400; onaldehyde 1B; Aquatic Acute 1; H411 Aquatic Chronic 2 2,2,6-Trimethyl-alpha-propylcyclohexa-Skin Sens. 1B H317 GHS07 nepropanol H226; H302; H304; GHS02; GHS07; M (acute) = 1 Pin-2(3)-ene Acute Tox. 4; Aquatic GHS08; GHS09 M (chronic) = 1 Acute 1; Aquatic H315; H317; H400; Chronic 1; Asp. Tox. 1; H410 Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1B Eye Irrit. 2; Skin Sens. GHS07 H317; H319 Eugenol 1R GHS07 Cinnamaldehyde Acute Tox. 4; Eye Irrit. H312; H315; H317; 2; Skin Irrit. 2; Skin H319 Sens. 1A

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

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## 4.1. Description of first aid measures

First aid measures

Inhalation : Not applicable under normal conditions of use. Consult a doctor if victim feels unwell.

Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up.

Consult a doctor if irritation occurs.

Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists.

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

to an unconscious person. Consult a doctor if victim feels unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation : No specific effects and/or symptoms are known.

Skin contact : Irritant. May cause redness and irritation, sensitisation. May produce an allergic reaction. May

cause dry skin.

Eye contact : May cause stinging of eyes and redness.

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 : 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

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

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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.

#### **HANDLING AND STORAGE SECTION 7**

#### 7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.

Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents.

Recommended packaging : Keep only in the original container.

Non recommended

packaging

: None known.

#### 7.3. Specific end use(s)

Use : Use only as directed.

#### **SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. Control parameters

Occupational exposure

limits

: Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have

not been established for this product.

#### Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour	STEL 15 min	Comments	Source
		(mg/m3)	(mg/m3)		
dl-Limonene		140			MAC: NO
Pin-2(3)-ene		113	-		MAC: BE

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

chemical name Route of DNEL, short-t		DNEL, short-te	NEL, 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- tetramethyl-2-naphtyl)ethan-1-one	Inhalation				1,76 mg/m3	
	Dermal	0,1011 mg/kg bw			1,73 mg/kg bw/day	
2,6-Dimethyloct-7-en-2-ol	Dermal Inhalation				20,8 mg/kg bw/day 73,5 mg/m3	
7-Hydroxycitronellal	Inhalation Dermal				18 mg/m3 1,9 mg/kg bw/day	
Coumarin	Dermal Inhalation				0,79 mg/kg bw/day 6,78 mg/m3	
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Inhalation				1,2 mg/m3	
	Dermal		1	0,01 mg/kg bw/ day	0,17 mg/kg bw/day	

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Pin-2(10)-ene	Inhalation				5,69 mg/m3
	Dermal			0,054 mg/kg bw/	0,8 mg/kg bw/day
				day	
Allyl (cyclohexyloxy)acetate	Inhalation				3,16 mg/m3
	Dermal				0,448 mg/kg bw/day
Linalool	Inhalation		16,5 mg/m3		2,8 mg/m3
į	Dermal	3 mg/kg bw	5 mg/kg bw	3 mg/kg bw/day	2,5 mg/kg bw/day
Linalyl acetate	Dermal	0,2362 mg/kg		0,2362 mg/kg	2,5 mg/kg bw/day
		bw		bw/day	
İ	Inhalation				2,75 mg/m3
Pin-2(3)-ene	Inhalation				3,8 mg/m3
İ	Dermal				0,54 mg/kg bw/day
Eugenol	Inhalation				21,2 mg/m3
	Dermal				6 mg/kg bw/day
Cinnamaldehyde	Inhalation				2,203 mg/m3
	Dermal	Ī	İ		2,5125 mg/kg bw/day

Derived no-effect level (DNEL) for consumers:

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- tetramethyl-2-naphtyl)ethan-1-one	Inhalation				0,43 mg/m3	
	Dermal	0,0506 mg/kg bw			0,86 mg/kg bw/day	
	Oral				0,25 mg/kg bw/day	
2,6-Dimethyloct-7-en-2-ol	Dermal				12,5 mg/kg bw/day	
	Inhalation				21,7 mg/m3	
	Oral	İ			12,5 mg/kg bw/day	
7-Hydroxycitronellal	Inhalation				5,4 mg/m3	
	Dermal				1,1 mg/kg bw/day	
	Oral				0,6 mg/kg bw/day	
Coumarin	Dermal				0,39 mg/kg bw/day	
	Oral				0,39 mg/kg bw/day	
	Inhalation				1,69 mg/m3	
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Inhalation				0,29 mg/m3	
	Dermal			0,005 mg/kg bw/ day	0,083 mg/kg bw/day	
	Oral				0,17 mg/kg bw/day	
Pin-2(10)-ene	Inhalation	İ			1 mg/m3	
	Dermal		1	0,027 mg/kg bw/ day	0,3 mg/kg bw/day	
	Oral				0,3 mg/kg bw/day	
Allyl (cyclohexyloxy)acetate	Inhalation	İ			0,557 mg/m3	
	Dermal				0,16 mg/kg bw/day	
	Oral				0,16 mg/kg bw/day	
Linalool	Dermal	1,5 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	
Linalyl acetate	Dermal	0,2362 mg/kg bw		0,2362 mg/kg bw/day	1,25 mg/kg bw/day	
	Inhalation				0,68 mg/m3	
	Oral				0,2 mg/kg bw/day	
Pin-2(3)-ene	Inhalation				0,67 mg/m3	
	Dermal				0,19 mg/kg bw/day	

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	Oral	0,19 mg/kg bw/day
Eugenol	Inhalation	5,22 mg/m3
	Dermal	3 mg/kg bw/day
	Oral	3 mg/kg bw/day
Cinnamaldehyde	Inhalation	0,5435 mg/m3
	Dermal	0,625 mg/kg bw/day
	Oral	2,5 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
2,6-Dimethyloct-7-en-2-ol	Water	0,0278 mg/l	0,0027 mg/l	
	Sediment	0,594 mg/kg	0,0594 mg/kg	
	Intermittent water			0,278 mg/l
	STP			10 mg/l
	Soil			0,103 mg/kg
	Oral			111 mg/kg food
Coumarin	Water	0,019 mg/l	0,0019 mg/l	lg/iig/iig/ii
Coamain	Sediment	0,15 mg/kg	0,015 mg/kg	
	Intermittent water	o, ro mg/kg	0,0101119/109	0,0142 mg/l
	STP			6,4 mg/l
	Soil			0,018 mg/kg
Alaba and I d O lara a Parala 5	Oral	0.005	0.004	30,7 mg/kg food
Alpha-methyl-1,3-benzodioxole-5- propionaldehyde	Water	0,005 mg/l	0,001 mg/l	
	Sediment	0,057 mg/kg	0,006 mg/kg	
	STP			10 mg/l
	Soil			0,008 mg/kg
Pin-2(10)-ene	Water	0,001004 mg/l	0,0001 mg/l	
,	Sediment	0,337 mg/kg	0,034 mg/kg	
	STP			3,26 mg/l
	Soil			0,067 mg/kg
	Oral			13,1 mg/kg food
Allyl (cyclohexyloxy)acetate	Water	0,00205 mg/l	0,000205 mg/l	To, r mg/kg lood
l light (cyclonexyloxy)acctate	Sediment	0,0387 mg/kg	0,00387 mg/kg	
	STP	0,0307 mg/kg	0,00307 mg/kg	0,3 mg/l
	Soil			0,375 mg/kg
l includ		0.0 //	0.00	0,375 mg/kg
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
Linalyl acetate	Water	0,011 mg/l	0,001 mg/l	
	Sediment	0,609 mg/kg	0,061 mg/kg	
	Intermittent water			0,11 mg/l
	STP			1 mg/l
	Soil			0,115 mg/kg
Pin-2(3)-ene	Water	0,0006 mg/l	0,00006 mg/l	
· <i>'</i>	Sediment	0,157 mg/kg	0,0157 mg/kg	
	STP			0,2 mg/l
	Soil			0,0317 mg/kg
	Oral			8,76 mg/kg food
Cinnamaldehyde	Water	1,004 mg/l	0,1004 mg/l	5,7 5 mg/ng 1000
Oli ilialia dell'y de	Sediment	159,1851 mg/kg	159,1851 mg/kg	
	1	109, 100 i ilig/kg	1109, 100 I Hig/kg	1 004 mg/l
	Intermittent water			1,004 mg/l
	STP	I		13,119 mg/l

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Soil		56,0847 mg/kg
Oral		0,00033 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

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: laminated film. Indication of permeation breakthrough time: 4

hours.

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

Not measured. Not relevant for mixtures.

with EN 140.

Wear appropriate safety gloves in accordance with EN 374. Suitable material: laminated film. ± 0,5 Hand protection

mm. Indication of permeation breakthrough time: 4 hours.

Eye protection Wear appropriate safety glasses 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.

Hq Not applicable. Waterfree product.

Solubility in water Not soluble.

Partition coefficient (n-oc-: Not known.

tanol/water)

Relative density (20°C)

Flash point : > 100 °C

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

Auto ignition temperature > 225 °C Boiling point/boiling range > 100 °C

< 0 °C Melting point/melting range:

Explosive properties None known. Does not contain explosives.

Explosion limits (% in air) Not known. Lower explosion limit in air (%): 0,7 (dl-Limonene) Upper explosion limit in air (%): 6,1 (dl-Limonene)

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): 0,88 g/ml

Evaporation rate : Not known. (n-butyl acetate = 1)

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#### 9.2. Other information

Other information : Not relevant.

#### SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition : Not known.

products

#### 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: 23 %. ATE: > 5 mg/l. Low toxicity. Not

classified - based on available data, the classification criteria are not met.

Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.

Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available

data, the classification criteria are not met.

Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the

classification criteria are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Skin contact

Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

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 : Slight irritation possible. Not classified - based on available data, the classification criteria are not

met.

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Ingestion

Kemetyl

Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Aspiration : Contains a substance/substances with an aspiration hazard. Not classified - based on available

data, the classification criteria are not met.

Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.

Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the

classification criteria are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Reprotoxicity : Development: Not 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
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	i
į	NOAEL (development,	480 mg/kg bw/d	OECD 414	Rat
	oral)			
2,6-Dimethyloct-7-en-2-ol	NOAEL (development)	1000 mg/kg.d	Read across	Rat
	- estimate			
İ	Mutagenicity	Not mutagenic	OECD 471	
İ	Genotoxicity - in vitro	Not genotoxic	OECD 476	İ
	NOAEL (oral) -	500 mg/kg bw/d	Read across	Rat
	estimate			
	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
l ldl-Limonene	Skin sensitisation -	Sensitizing	Read across	i dobit
ar Emonorio	estimate	Conomizing	Ttodd dorooc	
	NOAEL (oral) -	1200 mg/kg bw/d	Read across	Rat
	estimate	1200 mg/kg bw/d	1 Caa across	Nat
<u> </u>	NOAEL (fertility) -	Not reprotoxic	Read across	
	estimate	I Vot reprotoxic	i Cau across	
	Genotoxicity - estimate	Not genetoxic	Read across	
<u> </u>	Mutagenicity - estimate		Read across	
<u> </u>	NOAEL (development)	_	Read across	Rat
	- estimate	Jan mg/kg.d	i teau acioss	Nat
	LD50 (dermal) -	> 5000 mg/kg bw	Read across	
	estimate	5 3000 mg/kg bw	i Cau across	
	Skin irritation	Moderately irritant	OECD 404	Rabbit
	LD50 (oral)	5300 mg/kg bw	OECD 404	Rat
7-Hydroxycitronellal	Skin irritation	Irritant		Nat
i	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
	, ,	5612 ug/cm2	OECD 429	1
	Skin sensitisation	850 ug/cm2	OECD 429	Mouse
	Skin irritation		OECD 404	
	Eye irritation	Irritant		
	Skin irritation	Non-irritant		Pot
	LD50 (oral)	> 5000 mg/kg bw		Rat
	NOEL (oral)	250 mg/kg bw/d	1	I I

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	Genotoxicity - in vivo	Not genotoxic		Mouse
	NOEL (carcinogenicity)			
	- estimate			
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
Coumarin	Skin sensitisation	> 12500 ug/cm2	OECD 429	Mouse
Souriaini	NOAEL (development,	> 115 mg/kg bw/d	0200 420	Mouse
	oral)	TTO THIS/KG DW/G		liviouse
	1 '	Non irritant		Dobbit
	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	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vivo	> 105 mg/kg bw/d	OECD 474	Mouse
	NOEL (carcinogenicity)	Not carcinogenic		
	- estimate			
Alpha-methyl-1,3-benzodioxole-5-	Skin sensitisation	4100 ug/cm2	OECD 429	
propionaldehyde				
	NOAEL (dermal)	> 300 mg/kg bw/d		Rat
	NOAEL (development,	> 500 mg/kg bw/d		Rat
	oral)			
	Skin irritation	Non-irritant		
	LD50 (oral)	3600 mg/kg bw		Rat
	LD50 (dermal)	> 2000 mg/kg bw		Rabbit
	Skin irritation	Non-irritant		10001
	NOAEL (fertility, oral)	100 mg/kg bw/d	OECD 422	Rat
Pin-2(10)-ene	Skin sensitisation	Sensitizing	OECD 429	Mouse
-111-2(10)-6116		Moderately irritant	OECD 429 OECD 405	Rabbit
	Eye irritation	,		Rabbit
		250 mg/kg.d	Read across	
	- estimate			
	Skin irritation	Irritant		
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	LD50 (oral)	> 5000 mg/kg bw		Rat
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
I-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2	Genotoxicity - estimate	Not genotoxic	Read across	
buten-1-one				
	NOAEL (development)	Not teratogenic	Read across	
	- estimate			
	NOAEL (fertility) -	Not reprotoxic	Read across	<b> </b>
	estimate	'		
	NOEL (carcinogenicity)	Not carcinogenic	Read across	
	- estimate	1 101 001 011 0 901 110		
		50 mg/kg bw/d	Read across	Rat
	estimate	Jo mg/kg bw/d	I Cau across	T Cat
	NOAEL (oral) -	10 mg/kg bw/d	Read across	Rat
	estimate	To mg/kg bw/d	Reau acioss	Nat
		Negativa	OF CD 474	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
to all all	LD50 (oral)	1821 mg/kg bw		Mouse
_inalool	NOAEL (development,	365 mg/kg bw/d		Rat
	oral)			L
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin sensitisation	12650 ug/cm2	OECD 429	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
		Negative 500 mg/kg bw/d	OECD 471	Salmonella typhimurium Rat

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	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
Linalyl acetate	(3.3.)	1000 mg/kg bw/d	OECD 414	Rat
Linary acctate	LD50 (oral)	13934 mg/kg bw		Rat
	LC50 (inhalation)	> 2740 mg/m3		Mouse
	Skin irritation	Non-irritant		Human
	Skin irritation	Irritant	OECD 404	Rabbit
	-	Irritant	OECD 404	Rabbit
	Eye irritation	1	OECD 403	
	NOAEL (dames)	160 mg/kg bw/d		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
	Skin sensitisation	Sensitizing	OECD 429	Mouse
] 3-(p-Ethylphenyl)-2,2-	LD50 (dermal)	> 5000 mg/kg bw	OLOD 420	Rabbit
dimethylpropionaldehyde	LD30 (definal)	2 3000 mg/kg bw		Rabbit
dimetryipropionalderryde	LD50 (oral)	> 5000 mg/kg bw		Rat
	LC50 (inhalation) -	> 5000 mg/kg bw > 5000 mg/m3		Nat
		2 3000 mg/ms		
	estimate	0 :4::	D	
	Skin sensitisation -	Sensitizing	Read across	
, , , , , , , , , , , , , , , , , , ,	estimate			
2,2,6-Trimethyl-alpha-	LD50 (oral)	> 20000 mg/kg bw		
propylcyclohexanepropanol				
Pin-2(3)-ene	Skin sensitisation	Sensitizing		Guinea pig
	Skin irritation	Non-irritant		Human
	Skin irritation	Moderately irritant		Rabbit
	Mutagenicity	Not mutagenic		Salmonella typhimurium
	Eye irritation - estimate	Moderately irritant	Read across	Rabbit
	Genotoxicity - estimate	Not genotoxic	Read across	
	NOAEL (development)	250 mg/kg.d	Read across	Rat
	- estimate			
	NOAEL (inhalation)	170 mg/m3	OECD 413	Rat
	NOAEL (oral) -	250 mg/kg bw/d	Read across	
	estimate			
	LD50 (oral)	> 300 mg/kg bw		Rat
	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rat
Eugenol	LD50 (dcfmal)	> 2000 mg/kg bw	OECD 423	Rat
Lugerioi		> 2580 mg/m3	OECD 423	Rat
	LC50 (inhalation)	_	OECD 403	
	LC50 (inhalation) -	> 5000 mg/m3		Rat
	estimate			
	LD50 (dermal)	> 2000 mg/kg bw		Rat
	1 '	300 mg/kg bw/d		Rat
	oral)			
	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	1		
	IGEHOROXICHY - ESHIDATE	HAOL OCHURUXIC		

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	Genotoxicity - in vivo	Genotoxic	OECD 474	Mouse
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	NOAEL (fertility) -	> 700 mg/kg.d	Read across	Rat
	estimate			
	NOAEL (development,	250 mg/kg bw/d		Rabbit
	oral)			
Cinnamaldehyde	Skin irritation	Severely irritant		İ
	NOAEL (development,	5 mg/kg bw/d		Rat
	oral)			
	LD50 (oral)	2220 mg/kg bw		Rat
	LD50 (dermal)	1260 mg/kg bw		Rabbit
	Mutagenicity	Not mutagenic		Salmonella typhimurium
	NOAEL (oral) -	250 mg/kg bw/d		·
	estimate			
	Genotoxicity - in vitro	Genotoxic		
	Genotoxicity - in vivo	Not genotoxic		
	Eye irritation	Moderately irritant		Rabbit
	NOEL (carcinogenicity)	Not carcinogenic		
	- estimate			
İ	Skin sensitisation	262 ug/cm2	OECD 429	Mouse

#### SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Toxic to aquatic organisms. Calculated LC50 (fish): 3 mg/l. Calculated EC50 (waterflea): 13 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 : No specific information known.

12.4. Mobility in soil

Mobility : Adsorbs to soil and has low mobility.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other information : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
( , , , , , , , , , , , , , , , , , , ,	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	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	Log P(ow)	5,23		
tetramethyl-2-naphtyl)ethan-1-one				

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1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-	BCF	600		
tetramethyl-2-naphtyl)ethan-1-one				
	IC50 (algea) - estimate	> 1,81 mg/l		
	EC50 (waterflea) -	0,42 mg/l		
	estimate			
	LC50 (fish) - estimate	0,7 mg/l		
İ	LC50 (fish)	0,2 mg/l		
	EC50 (waterflea)	17 mg/l		Daphnia magna
dl-Limonene	Log P(ow)	5,3		
dl-Limonene	BCF	761		
Alpha-methyl-1,3-benzodioxole-5- propionaldehyde	EC50 (waterflea)	8,3 mg/l	OECD 202	Daphnia magna
	LC50 (fish)	> 4,6 mg/l	OECD 203	Oncorhynchus mykiss
	IC50 (algea)	28 mg/l	OECD 201	Pseudokirchnerella subcapitata
Alpha-methyl-1,3-benzodioxole-5- propionaldehyde	Log P(ow)	2,4		Subcapitata
Pin-2(10)-ene	LC50 (fish)	0,502 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	1,25 mg/l		Daphnia magna
	Ultimate aerobic	76 %	OECD 301 D	
	biodegradation (%)			
	IC50 (algea)	0,826 mg/l	OECD 201	Pseudokirchnerella
		'		subcapitata
Pin-2(10)-ene	Log P(ow)	4,4		'
Allyl (cyclohexyloxy)acetate	EC50 (waterflea)	11,3 mg/l	OECD 202	Daphnia magna
	NOEC (waterflea) - chronic	3,2 mg/l.d	OECD 202	Daphnia magna
	Ultimate aerobic	24 %	OECD 301 D	
	biodegradation (%)			
	IC50 (algea)	69,2 mg/l		Pseudokirchnerella subcapitata
	LC50 (fish)	0,205 mg/l		Brachydanio rerio
Allyl (cyclohexyloxy)acetate	Log P(ow)	2,64		, ,
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2		4,2		
-buten-1-one				
Pin-2(3)-ene	Ultimate aerobic	62 %	OECD 301 B	
	biodegradation (%)			
	LC50 (fish)	0,28 mg/l		Pimephales promelas
	EC50 (waterflea)	1,44 mg/l		Daphnia magna
Pin-2(3)-ene	Log P(ow)	4,32		

## 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.

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#### **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; dl-Limonene)

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 ; dl-Limonene )

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

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

Class : 9
Classification code : M6
Packaging group : III

Danger label : 9 + the "environmentally hazardous substance" mark.

Tunnel restriction

code

: 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

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#### 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

: Not applicable.

assessment

#### 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

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

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

Skin Irrit. 2 : Calculation method.
Skin Sens. 1/1A/1B : Calculation method.
Aquatic Chronic 2 : Calculation method.

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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.

H312 Harmful in contact with skin. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
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.

Advice on any training appropriate for workers: none.

Number format : "," used as decimal separator.

End of safety data sheet.

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