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

1.1. Product identifier

Product name : ALEFIA SCENTED CANDLE WOODY & FLORAL

Product code : ALE-063

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

Application : SU21 Consumer product. PC3 Airfreshener. Scented candle.

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 sensitization, category 1. Hazardous to the aquatic environment — Chronic category 3.

(1272/2008/EC)

Human health hazards : May cause an allergic skin reaction.

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

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

2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :



Signal word : Warning

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

H412 Harmful 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.

P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Product name : Alefia Scented candle Woody & Floral Page 1/14

According to Regulation (EU) No 2015/830

P362+P364 Take off contaminated clothing and wash it before reuse.

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

P273 Avoid release to the environment.

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.

H412 Harmful 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.

1 200 gloves vieal protective gloves.

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; Benzyl salicylate; Linalool; Linalyl acetate; Piperonal; (Ethoxymethoxy)cyclododecane; Isoeugenol.

: Contains 5 % of components with unknown hazards to the aquatic environment.

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-	1 - < 2,5	54464-57-2	259-174-3		01-2119489989-04
tetramethyl-2-naphtyl)ethan-1-one					
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-	0,25 - < 1	1222-05-5	214-946-9		01-2119488227-29
hexamethylindeno[5,6-c]pyran					
Benzyl salicylate	0,1 - < 1	118-58-1	204-262-9		01-2119969442-31
Linalool	0,1 - < 1	78-70-6	201-134-4		01-2119474016-42
Linalyl acetate	0,1 - < 1	115-95-7	204-116-4		01-2119454789-19
Piperonal	0,1 - < 1	120-57-0	204-409-7		01-2119983608-21
Reaction mass of: (E)-	0,1 - < 0,25	34902-57-3	422-320-3		01-0000016883-62
oxacyclohexadec-12-en-2-one; (E)-					
oxacyclohexadec-13-en-2-one					
(Ethoxymethoxy)cyclododecane	0,1 - < 1	58567-11-6	261-332-1		01-2119971571-34
Oxydipropanol	0,1 - < 1	25265-71-8	246-770-3	MAC	
[3R-(3α,3aβ,7β,8aα)]-1-	0,025 - < 0,1	469-61-4	207-418-4		
(2,3,4,7,8,8a-hexahydro-3,6,8,8-					
tetramethyl-1H-3a,7-methanoazulen-5-					
yl)ethan-1-one					

Product name : Alefia Scented candle Woody & Floral Page 2/14

Isoeugenol	 < 0,01 97-54-1	202-590-7		
Substance name	Hazard Class	H-phrases	Pictograms	
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-	Aquatic Acute 1;	H400; H410	GHS09	M (chronic) = 1
hexamethylindeno[5,6-c]pyran Benzyl salicylate	Aquatic Chronic 1 Skin Sens. 1; Eye Irrit. 2; Aquatic Chronic 3	H317; H319; H412	GHS07; GHS09	
Linalool	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1B	H315; H317; H319	GHS07	
Linalyl acetate	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
Piperonal	1	H317	GHS07	
Reaction mass of: (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
(Ethoxymethoxy)cyclododecane	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 2	H315; H317; H411	GHS07; GHS09	
Oxydipropanol	ļ			
[3R-(3α,3aβ,7β,8aα)]-1- (2,3,4,7,8,8a-hexahydro-3,6,8,8- tetramethyl-1H-3a,7-methanoazulen-5- yl)ethan-1-one	Acute 1; Aquatic	H304; H400; H410	GHS08; GHS09	M (acute) = 10 M (chronic) = 10
Isoeugenol	2; Skin Irrit. 2; Skin	H312; H302; H332; H319; H315; H317; H335	GHS07	H317 : C >= 0.01 %

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. Remove contact lenses. Consult a doctor if irritation persists.

Ingestion : Do not induce vomiting. Give nothing to drink. Do rinse the mouth. 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 : May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry

skin.

Eve contact : May cause stinging of eyes and redness.

Ingestion : May cause a feeling of sickness, vomiting and diarrhoea. May cause lung damage, sore throat and

lack of breath.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians : None known.

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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.

: Carbon monoxide may be evolved if incomplete combustion occurs. Hazardous thermal

decomposition products

5.3. Advice for firefighters

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

equipment for fire-fighters

ACCIDENTAL RELEASE MEASURES SECTION 6

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.

6.2. Environmental precautions

Environmental precautions: Avoid release of product into sewers, surface water and/or ground water. 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.

Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding

(earthing) all equipment. Avoid contact with skin and eyes. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep 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)

Product name : Alefia Scented candle Woody & Floral Page 4/14

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)		
Oxydipropanol		67	-		MAC: DE

Derived no-effect level (DNEL) for workers:

Chemical name	Route of	DNEL, short-te	erm	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	ĺ			1,76 mg/m3
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-	Dermal				28,85 mg/kg bw/day
hexamethylindeno[5,6-c]pyran					
	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
Linalyl acetate	Dermal	0,2362 mg/kg		0,2362 mg/kg	2,5 mg/kg bw/day
		bw		bw/day	
	Inhalation				2,75 mg/m3
Piperonal	Dermal				0,5 mg/kg bw/day
	Inhalation				3,5 mg/m3
(Ethoxymethoxy)cyclododecane	Dermal				3,3 mg/kg bw/day
	Inhalation				23,5 mg/m3
Oxydipropanol	Dermal				84 mg/kg bw/day
- 	Inhalation		Ī		238 mg/m3

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-	Dermal	0,0506 mg/kg			0,86 mg/kg bw/day	
etramethyl-2-naphtyl)ethan-1-one		bw				
	Inhalation		Ĭ		0,43 mg/m3	
	Oral				0,25 mg/kg bw/day	
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-	Dermal				14,43 mg/kg bw/day	
nexamethylindeno[5,6-c]pyran	L					
	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	
_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	

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According to Regulation (EU) No 2015/830

	Oral	1	1,2 mg/kg bw		0,2 mg/kg bw/day
Linalyl acetate	Dermal	0,2362 mg/kg		0,2362 mg/kg	1,25 mg/kg bw/day
		bw		bw/day	
	Inhalation				0,68 mg/m3
	Oral				0,2 mg/kg bw/day
Piperonal	Dermal				0,25 mg/kg bw/day
	Inhalation				0,87 mg/m3
	Oral				0,25 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
Oxydipropanol	Dermal				51 mg/kg bw/day
	Inhalation				70 mg/m3
	Oral				24 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-	Water	0,0044 mg/l	0,0004 mg/l	
nexamethylindeno[5,6-c]pyran				
	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
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			10 mg/l
	Soil			0,115 mg/kg
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
(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
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

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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.

Not measured. Not relevant for mixtures.

Respiratory protection: Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale

exposure.

Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. \pm 0,5 mm.

Indication of permeation breakthrough time: not known.

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 : Solid.
Colour : White.
Odour : Perfumed.
Odour threshold : Not known.

pH : Not applicable. Solid.

Solubility in water : Not soluble.

Partition coefficient (n- : Not applicable.

octanol/water)

Flash point : Not relevant. Solid.

Flammability (solid, gas) : Not flammable. Not easily ignitable.

Auto ignition temperature : > 200 °C Boiling point/boiling range : > 100 °C

Boiling point/boiling range : > 100 °C Melting point/melting range : > 30 °C

Explosive properties : None known. Does not contain explosives.

Explosion limits (% in air) : Not known.

Oxidising properties : Not applicable. Does not contain oxidizing substances.

Decomposition temperature: Not applicable.

 $\begin{tabular}{lll} Relative density (20 \begin{tabular}{ll} CO \\ Evaporation rate \\ \end{tabular} & : Not known. \\ Evaporation rate \\ \end{tabular} : Very low. Solid.$

9.2. Other information

Other information : Not relevant.

SECTION 10 STABILITY AND REACTIVITY

Product name : Alefia Scented candle Woody & Floral Page 7/14

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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: 96 %. ATE: > 5 mg/l. Not classified

due to lack of data.

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

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

Skin contact

Acute toxicity : Calculated LD50: > 3894 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 : Not classified - based on available data, the classification criteria are not met. 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.

Ingestion

Acute toxicity : Calculated LD50: > 4552 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

 $\label{low-toxicity} \mbox{Low toxicity. Not classified - based on available data, the classification criteria are not met.}$

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, stomachache, vomiting and diarrhoea.

Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria

are not met.

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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,	480 mg/kg bw/d	OECD 414	Rat
	oral)			
Benzyl salicylate	LD50 (oral)	2227 mg/kg bw		Rat
	Skin sensitisation	725 ug/cm2	OECD 429	Mouse
	Skin irritation	Non-irritant		Rabbit
	NOAEL (oral) -	> 360 mg/kg bw/d	Read across	Rat
	estimate	> 500 mg/kg bw/d	rcad across	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (fertility) -	180 mg/kg.d	Read across	Rat
	estimate			
	NOAEL (development)	> 360 mg/kg.d	Read across	Rat
	- estimate			
	Eye irritation	Moderately irritant		Rabbit
Linalool	NOAEL (development,	365 mg/kg bw/d		Rat
	oral)			
	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	0200 470	Rabbit
	Skin irritation	Mildly irritant		Human
	LD50 (oral)	2790 mg/kg bw		Rat
	1			Rat
Lingly Locatote	NOAEL (oral)	117 mg/kg bw/d		
Linalyl acetate	LC50 (inhalation) - estimate	> 5000 mg/m3		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 411	Rat
	Eye irritation	Irritant	OECD 407	Rabbit
	Skin irritation	Irritant	OECD 403	Rabbit
	Skin irritation	Non-irritant		
	l .			Human
	LC50 (inhalation)	> 2740 mg/m3		Mouse
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	LD50 (oral)	13934 mg/kg bw		Rat
	1	1000 mg/kg bw/d	OECD 414	Rat

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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
(Ethoxymethoxy)cyclododecane	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
, , , , , , , , , , , , , , , , , , , ,	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rabbit
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster
	Skin irritation	Irritant	OECD 404	Rabbit
	Eye irritation	Non-irritant	OECD 405	Rabbit
	NOAEL (oral)	1000 mg/kg bw/d	OECD 422	Rat
	NOAEL (development, oral)	1000 mg/kg bw/d	OECD 422	Rat
	NOAEL (fertility, oral)	1000 mg/kg bw/d	OECD 422	Rat
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
Isoeugenol	LD50 (dermal) -	1912 mg/kg bw		
	estimate LC50 (inhalation) -	1500 mg/m3		
	estimate			
İ	LD50 (oral)	1560 mg/kg bw		Rat
İ	Mutagenicity	Negative		Salmonella typhimurium
	NOEL (carcinogenicity,	Not carcinogenic		Rat
	oral)			
	Skin irritation	Severely irritant		Rabbit
	Skin irritation	Moderately irritant		Human
	Skin sensitisation	498 ug/cm2	OECD 429	Mouse

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Harmful to aquatic organisms. Calculated LC50 (fish): 24 mg/l. Calculated EC50 (waterflea): 12 mg/

I. Contains 5 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

12.4. Mobility in soil

Mobility : Little chance of penetration of spilled product into the ground and surface water.

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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-	LC50 (fish)	1,3 mg/l	OECD 203	
tetramethyl-2-naphtyl)ethan-1-one				
	EC50 (waterflea)	1,38 mg/l	OECD 202	
	IC50 (algea)	> 2,6 mg/l	OECD 201	
	Log P(ow)	5,23		
	BCF	600		
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-	LC50 (fish)	1,36 mg/l	OECD 204	Lepomis macrochirus
hexamethylindeno[5,6-c]pyran				
	EC50 (waterflea)	0,47 mg/l		
	IC50 (algea)	> 0,85 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic	2 %	OECD 301 B	· .
	biodegradation (%)			
	NOEC (waterflea) -	0,111 mg/l.d	OECD 202	Daphnia magna
	chronic			'
	NOEC (fish)	0,068 mg/l.d	OECD 210	Pimephales promelas
	Log P(ow)	5,9		
	BCF	1584		
Reaction mass of: (E)-	LC50 (fish)	2,0 mg/l	OECD 203	Oncorhynchus mykiss
oxacyclohexadec-12-en-2-one; (E)-				
oxacyclohexadec-13-en-2-one				
	EC50 (waterflea)	0,48 mg/l	OECD 202	Daphnia magna
	NOEC (fish)	0,52 mg/l	OECD 203	Oncorhynchus mykiss
	Log P(ow)	5,02		
[3R-(3α,3aβ,7β,8aα)]-1-	LC50 (fish) - estimate	0,055 mg/l		
(2,3,4,7,8,8a-hexahydro-3,6,8,8-				
tetramethyl-1H-3a,7-methanoazulen-5-				
yl)ethan-1-one				
	EC50 (waterflea) -	> 0,01 mg/l		
	estimate			
	Log P(ow)	6,38		

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers should be recycled or

re-used. Treat product residues and non-empty pack as hazardous waste.

Additional warning : None.

Waste water discharge : Avoid discharge of waste water arising from tank cleaning to the environment.

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. : None.

14.2. UN proper shipping name

Transport name : Not regulated.

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

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

: This product is not classified according to ADR/RID/ADN. Class

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)

Class : This product is not classified according to IATA.

14.6. Special precautions for user

Other information : Country specific variations may apply.

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

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

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

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ATE : Acute Toxicity Estimate

Classification, Labeling & Packaging CLP

Carcinogenic, Mutagenic or toxic for Reproduction CMR

European Economic Community EEC

Globally Harmonized System of Classification and Labelling of Chemicals GHS

: International Air Transport Association IATA : International Bulk Chemical Code IBC 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

РΤ Product type

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

Regulations concerning the International Carriage of Dangerous Goods by Rail RID

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 Sens. 1/1A/1B : Calculation method. : Calculation method. Aquatic Chronic 3

Full text of hazard classes mentioned in section 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.

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. : Hazardous to the aquatic environment — Chronic category 2. Aquatic Chronic 2 Aquatic Chronic 3 : Hazardous to the aquatic environment — Chronic category 3. : Hazardous to the aquatic environment — Acute category 1. Aquatic Acute 1

Full text of H-phrases mentioned in section 3:

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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

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

Harmful if inhaled. H332

May cause respiratory irritation. H335

Very toxic to aquatic life. H400

Very toxic to aquatic life with long lasting effects. H410 Toxic to aquatic life with long lasting effects. H411 Harmful to aquatic life with long lasting effects. H412

Advice on any training appropriate for workers: none.

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According to Regulation (EU) No 2015/830

Number format : "," used as decimal separator.

End of safety data sheet.

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