



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

1.1. Product identifier

Product name : LAFITA PERFUME PEARLS WOODY FLORAL
Product code : LF1V332

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
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 the aquatic environment — Chronic category 2.

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. Combustible.

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

2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :



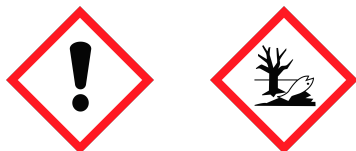
Signal word : Warning

H- and P-phrases : H315 Causes skin irritation.
H319 Causes serious eye 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 hands Wear protective gloves and eye protection.
eyes
P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container to an official chemical waste depot.

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.
P302+P352 IF ON SKIN: Wash with plenty of water/soap.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
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-naphthyl)ethan-1-one ; Linalool ; 4-tert-Butylcyclohexyl acetate ; Linalyl acetate ; (Ethoxymethoxy)cyclododecane ; Cedarwood oil Texas ; (Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one ; 1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one ; Oils, lemon ; 1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one ; 1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one .

2.3. Other hazards

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

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	10 - < 20	54464-57-2	259-174-3		
Linalool	1 - < 10	78-70-6	201-134-4		
4-tert-Butylcyclohexyl acetate	1 - < 10	32210-23-4	250-954-9		
Linalyl acetate	1 - < 10	115-95-7	204-116-4		
3,7-Dimethylnona-1,6-dien-3-ol	1 - < 10	10339-55-6	233-732-6		
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	1 - < 10	28219-61-6	248-908-8		
(Ethoxymethoxy)cyclododecane	1 - < 10	58567-11-6	261-332-1		
3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	1 - < 10	67801-20-1	267-140-4		
Cedarwood oil Texas	1 - < 10	-----	614-888-8		
(Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one	0,1 - < 1	81786-73-4	279-822-9		
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	0,1 - < 1	33704-61-9	251-649-3		
Lemon, ext.	0,1 - < 1	84929-31-7	284-515-8		



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(Z)-3-hexenyl salicylate	0,1 - < 1	65405-77-8	265-745-8		
1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	0,01 - < 0,1	23696-85-7	245-833-2		
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	0,01 - < 0,1	57378-68-4	260-709-8		

Substance name	Hazard Class	H-phrases	Pictograms	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Aquatic Chronic 1; Skin Irrit. 2; Skin Sens. 1B	H315; H317; H410	GHS07; GHS09	M (chronic) = 1
Linalool	Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1B	H315; H317; H319	GHS07	
4-tert-Butylcyclohexyl acetate	Skin Sens. 1B	H317	GHS07	
Linalyl acetate	Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1B	H315; H317; H319	GHS07	
3,7-Dimethylnona-1,6-dien-3-ol	Eye Irrit. 2; Skin Irrit. 2	H315; H319	GHS07	
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Eye Irrit. 2; Aquatic Chronic 2	H319; H411	GHS07; GHS09	
(Ethoxymethoxy)cyclododecane	Aquatic Chronic 2; Skin Irrit. 2; Skin Sens. 1B	H315; H317; H411	GHS07; GHS09	
3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	Aquatic Chronic 2	H411	GHS09	
Cedarwood oil Texas	Aquatic Acute 1; Aquatic Chronic 1; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B	H304; H315; H317; H400; H410	GHS07; GHS08; GHS09	M (chronic) = 1
(Z)-3,4,5,6,6-Pentamethylhept-3-en-2-one	Aquatic Chronic 2; Skin Sens. 1B	H317; H411	GHS07; GHS09	
1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	Aquatic Chronic 2; Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1B	H315; H317; H319; H411	GHS07; GHS09	
Lemon, ext.	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1; Aquatic Chronic 2	H226; H304; H315; H317; H411	GHS02; GHS07; GHS08; GHS09	
(Z)-3-hexenyl salicylate	Aquatic Acute 1; Aquatic Chronic 1	H400; H410	GHS09	M (acute) = 1 M (chronic) = 1
1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	Aquatic Chronic 2; Skin Irrit. 2; Skin Sens. 1A	H315; H317; H411	GHS07; GHS09	
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1; Skin Irrit. 2; Skin Sens. 1A	H302; H315; H317; H400; H410	GHS07	M (acute) = 1 M (chronic) = 1

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

First aid measures

- Inhalation : Not applicable under normal conditions of use. Consult a doctor if victim feels unwell.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation occurs.
- Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor.
- Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell.



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

Effects and symptoms

- Inhalation : No specific effects and/or symptoms are known.
- Skin contact : Irritant. May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin.
- Eye contact : Irritant. May cause redness and pain.
- Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

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

- Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

- Suitable : Carbondioxide (CO2). Foam. Dry chemical. Water fog.
- Not suitable : Water jet.

5.2. Special hazards arising from the substance or mixture

- Special exposure hazards : None known.
- Hazardous thermal decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

- Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions

- Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills: contain with dike. Waste product should not be allowed to contaminate soil or water.
- Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Collect spilled material in containers. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

- Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE



7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Keep away from sources of ignition — No smoking. 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.

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: laminated film. Indication of permeation breakthrough time: 6 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 with EN 140.
Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: laminated film. ± 0,5 mm. Indication of permeation breakthrough time: 6 hours.
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 : 2 - 11,5



Solubility in water	: Not soluble.	
Partition coefficient (n-octanol/water)	: Not applicable.	Not measured. Not relevant for mixtures.
Flash point	: > 60 °C	Closed cup.
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: > 225 °C	
Boiling point/boiling range	: > 100 °C	
Melting point/melting range	: Not known.	
Explosive properties	: Not an explosive.	
Explosion limits (% in air)	: Not known.	Lower explosion limit in air (%): 0,7 (Linalyl acetate)
		Upper explosion limit in air (%): 5,2 (Linalool)
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.	
Viscosity (20°C)	: Not known.	
Viscosity (40°C)	: Not relevant.	The product contains < 10% substances having an aspiration hazard.
Vapour pressure (20°C)	: Not known.	
Vapour density (20°C)	: > 1	(air = 1)
Relative density (20°C)	: 0,94 g/ml	
Evaporation rate	: Not known.	(n-butyl acetate = 1)

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 products : Not known.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 54 %. ATE: > 5 mg/l. Not classified - based on available data, the classification criteria are not met.



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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	: Irritant.
Ingestion	
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 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-tetramethyl-2-naphthyl)ethan-1-one	Skin irritation	Non-irritant	----	Rabbit
	Skin sensitisation	6825 ug/cm2	OECD 429	Mouse
	LD50 (oral)	> 5000 mg/kg bw	----	Rat
	LD50 (dermal)	> 5000 mg/kg bw	----	Rat
	Mutagenicity	Not mutagenic	OECD 471	----
	NOAEL (development, oral)	480 mg/kg bw/d	OECD 414	Rat
	NOAEL (development, oral)	365 mg/kg bw/d	----	Rat
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin sensitisation	12650 ug/cm2	OECD 429	Mouse
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (fertility, oral)	500 mg/kg bw/d		Rat
	Skin irritation	Irritant	OECD 404	Rabbit
	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 475	Mouse
	LD50 (dermal)	5610 mg/kg bw	----	Rabbit
Linalool	Skin irritation	Mildly irritant	----	Human
	LD50 (oral)	2790 mg/kg bw	----	Rat
	NOAEL (oral)	117 mg/kg bw/d	----	Rat
	LD50 (oral)	5000 mg/kg bw	----	Rat
4-tert-Butylcyclohexyl acetate	LD50 (dermal)	> 5000 mg/kg bw		Rabbit



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Linalyl acetate	Eye irritation	Non-irritant	Read across	Rabbit
	Skin irritation	Non-irritant		Rabbit
	NOAEL (oral) - estimate	710 mg/kg bw/d		
	LD50 (oral)	1000 mg/kg bw/d		Rat
	LC50 (inhalation)	13934 mg/kg bw		Rat
	Skin irritation	> 2740 mg/m3		Mouse
	Skin irritation	Non-irritant		Human
	Eye irritation	Irritant		Rabbit
	NOAEL (oral)	Irritant		Rabbit
	NOAEL (dermal)	160 mg/kg bw/d		Rat
	Mutagenicity	250 mg/kg bw/d		Rat
	Genotoxicity - in vitro	Not mutagenic		Salmonella typhimurium
	Genotoxicity - in vivo	Not genotoxic		Mouse
	NOAEL (development, oral)	Not genotoxic		Mouse
3,7-Dimethylnona-1,6-dien-3-ol	NOAEL (development, oral)	> 1000 mg/kg bw/d	OECD 414	Rat
	LC50 (inhalation) - estimate	> 5000 mg/m3	OECD 414	Rat
	Skin sensitisation	Sensitizing	OECD 429	Mouse
	LD50 (oral)	5000 mg/kg bw	OECD 429	Rat
	LD50 (dermal)	> 5000 mg/kg bw	OECD 429	Rabbit
	NOAEL (oral) - estimate	117 mg/kg bw/d	Read across	Rat
	NOAEL (dermal) - estimate	250 mg/kg bw/d	Read across	Rat
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	Genotoxicity - estimate	Not genotoxic	Read across	
	Skin irritation	Irritant	OECD 429	Rabbit
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Eye irritation	Irritant	OECD 429	Rabbit
	LD50 (dermal)	2000 mg/kg bw	OECD 429	Rabbit
	NOAEL (oral)	300 mg/kg bw/d	OECD 422	Rat
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (fertility, oral)	> 300 mg/kg bw/d	OECD 422	Rat
	Skin irritation	Non-irritant	OECD 404	Rabbit
	LD50 (oral)	5000 mg/kg bw	OECD 404	Rat
	Eye irritation - estimate	Irritant	OECD 404	Rat
(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
	LD50 (dermal)	> 5000 mg/kg bw	OECD 429	Rabbit
	LD50 (oral)	> 5000 mg/kg bw	OECD 429	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOAEL (oral) - estimate	207 mg/kg bw/d	OECD 422	Rat
Cedarwood oil Texas	Genotoxicity - estimate	Not genotoxic	Read across	Mouse



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1,2,3,5,6,7-Hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	NOAEL (fertility) - estimate	> 381 mg/kg.d	Read across	Rat
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Mouse
	LD50 (oral)	> 2325 mg/kg bw	OECD 401	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Skin irritation	Irritant		Human
	Eye irritation	Irritant	-----	-----
	NOAEL (oral)	10 mg/kg bw/d	OECD 408	Rat
	NOAEL (development, oral)	115 mg/kg bw/d	OECD 421	Rat
	NOAEL (fertility, oral)	115 mg/kg bw/d	OECD 421	Rat
	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
Lemon, ext.	LD50 (dermal)	> 10000 mg/kg bw	OECD 402	Rabbit
1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	LD50 (oral)	2000 mg/kg bw	-----	Rat
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	NOAEL (oral)	> 10 mg/kg bw/d	-----	-----
	Genotoxicity - estimate	Not genotoxic	Read across	-----
	NOAEL (development) - estimate	Not teratogenic	Read across	-----
	NOAEL (fertility) - estimate	Not reprotoxic	Read across	-----
	NOEL (carcinogenicity) - estimate	Not carcinogenic	Read across	
	NOAEL (dermal) - estimate	50 mg/kg bw/d	Read across	Rat
	NOAEL (oral) - estimate	10 mg/kg bw/d	Read across	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	LD50 (oral)	1821 mg/kg bw		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): 2 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.



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Ecological information:

Chemical name	Property		Method	Test animal
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	EC50 (waterflea)	1,38 mg/l	OECD 202	-----
	IC50 (algae)	> 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-tetramethyl-2-naphthyl)ethan-1-one	Log P(ow)	5,23		
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	BCF	600		
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	EC50 (waterflea)	0,63 mg/l	OECD 202	Daphnia magna
	LC50 (fish)	1,1 mg/l	-----	Lepomis macrochirus
	Ultimate aerobic biodegradation (%)	0 %	OECD 301 F	
	IC50 (algae)	2,5 mg/l		Pseudokirchnerella subcapitata
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	Log P(ow)	4,44		
(Ethoxymethoxy)cyclododecane	LC50 (fish)	1,9 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	1,6 mg/l	OECD 202	Daphnia magna
	NOEC (fish)	1,3 mg/l	OECD 203	Brachydanio rerio
	NOEC (waterflea) - acute	0,68 mg/l	OECD 202	Daphnia magna
	IC50 (algae)	> 2 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	< 60	OECD 302 C	
(Ethoxymethoxy)cyclododecane	Log P(ow)	5,4		
(Ethoxymethoxy)cyclododecane	BCF	530		
3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	LC50 (fish)	1,7 mg/l	OECD 203	Pimephales promelas
	NOEC (fish)	0,96 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	1,1 mg/l	OECD 202	Daphnia magna
	NOEC (waterflea) - acute	0,32 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	66 %	OECD 301 F	
3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	Log P(ow)	4,2		
3-Methyl-5-(2,2,3-trimethyl-3-cyclopenten-1-yl)pent-4-en-2-ol	BCF	366		
Cedarwood oil Texas	EC50 (waterflea)	0,76 mg/l	OECD 202	Daphnia magna
Cedarwood oil Texas	Log P(ow)	4,3		
Lemon, ext.	LC50 (fish) - estimate	5,65 mg/l	Read across	Brachydanio rerio
	EC50 (waterflea) - estimate	1,1 mg/l	Read across	Daphnia magna
	IC50 (algae) - estimate	8,0 mg/l	Read across	Pseudomonas fluorescens
(Z)-3-hexenyl salicylate	Ultimate aerobic biodegradation (%)	89 %	OECD 301 F	
	LC50 (fish) - estimate	1,13 mg/l		Brachydanio rerio
	EC50 (waterflea)	3,7 mg/l	OECD 202	Daphnia magna
	IC50 (algae)	0,61 mg/l	OECD 201	Desmodesmus subspicatus
(Z)-3-hexenyl salicylate	Log P(ow)	4,57		

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues, impregnated wipes and non-empty pack as hazardous waste.
- Additional warning : None.
- Waste water discharge : Do not dispose into the environment, in drains or in water courses.
- European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.
- Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number

UN nr. : UN 3082

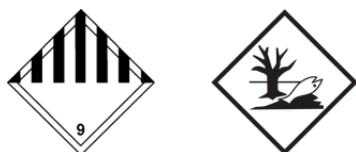
14.2. UN proper shipping name

- Transport name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one ; Cedarwood oil Texas)
- Transport name (IMDG, IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one ; Cedarwood oil Texas)

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

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2015/830 dated 28 May 2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	: Acute Toxicity Estimate
CLP	: Classification, Labeling & Packaging
CMR	: Carcinogenic, Mutagenic or toxic for Reproduction
EEC	: European Economic Community
GHS	: Globally Harmonized System of Classification and Labelling of Chemicals
IATA	: International Air Transport Association
IBC code	: International Bulk Chemical Code
IMDG	: International Maritime Dangerous Goods Code
LD50/LC50	: Lethal Dose/Concentration for 50% of a population
MAC	: Maximum Allowable Concentration
MARPOL	: International Convention for the Prevention of Pollution From Ships
NO(A)EL	: No Observed (Adverse) Effect Level
OECD	: Organisation for Economic Co-operation and Development
PBT	: Persistent, Bioaccumulative and Toxic
PC	: Chemical product category
PT	: Product type
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	: Sewage Treatment Plant
SU	: Sector of Use



SAFETY DATA SHEET

According to Regulation (EU) No 2015/830

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

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 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.

Advice on any training appropriate for workers: none.

Number format : ", " used as decimal separator.

End of safety data sheet.