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

1.1. Product identifier

Product name : WELLNESS AIROMATHERAPY BEADS AIR BEADS - PEPPERMINT EUCALYPTUS
Product code : 755558004634-PE
UFI : YE00-V04G-D00K-CKYQ

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

Application : SU21 Consumer product. PC3 Other air care products. Airfreshener.

1.3. Details of the supplier of the safety data sheet

Supplier : inSPAration Europe
Industrieweg 8b
5571 LJ Bergeijk, The Netherlands
Telephone : +31 497 555562
E-mail : info@insparation.com

Supplier : inSPAration Inc.
11950 Hertz Ave.
Moorpark, United States of America
Telephone : +1-805.553.0820

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
NL - Telephone : +31 497 555562 (During office hours only)

SECTION 2 HAZARDS IDENTIFICATION *

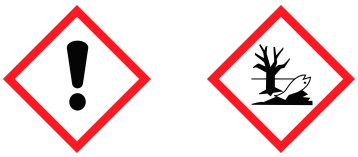
2.1. Classification of the substance or mixture

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

Human health hazards : 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

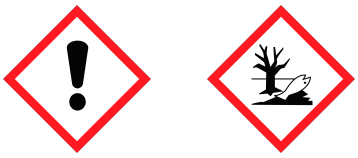
H- and P-phrases :

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.

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: Cineole ; Benzyl salicylate ; d-Limonene ; L-Menthan-3-one ; Isomenthone ; Pin-2(3)-ene ; Linalyl acetate ; Linalool ; alpha-Hexylcinnamaldehyde ; Alpha-Amylcinnamaldehyde ; Eugenol ; Citronellol ; 3R-(3α,3aβ,6α,7β,8aα)]-octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl acetate ; Cis-4-(isopropyl)cyclohexanemethanol ; Cedryl methyl ketone ; 3-p-Cumenyl-2-methylpropionaldehyde ; Pin-2(10)-ene ; Methyl 2,4-dihydroxy-3,6-dimethylbenzoate ; Alpha-methyl-1,3-benzodioxole-5-propionaldehyde ; 7-Methyl-3-methyleneocta-1,6-diene ; Isoeugenol .

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.
Cineole	10 - < 20	470-82-6	207-431-5		
Benzyl benzoate	10 - < 25	120-51-4	204-402-9		
L-menthol	1 - < 5	2216-51-5	218-690-9		
Benzyl salicylate	1 - < 5	118-58-1	204-262-9		
d-Limonene	1 - < 5	5989-27-5	227-813-5		
2-Phenylethanol	1 - < 5	60-12-8	200-456-2		
L-Menthan-3-one	1 - < 5	14073-97-3	237-926-1		
Menthol	1 - < 5	89-78-1	201-939-0		
Isomenthone	1 - < 5	491-07-6	207-727-4		
3-Methyl-4-(2,6,6-trimethyl-2-cyclohex-en-1-yl)-3-buten-2-one	1 - < 2,5	127-51-5	204-846-3		
p-Mentha-1,4-diene	0,1 - < 1	99-85-4	202-794-6		
Pin-2(3)-ene	1 - < 2,5	80-56-8	201-291-9		

musk ketone	0,25 - < 1	81-14-1	201-328-9		
Linalyl acetate	0,1 - < 1	115-95-7	204-116-4		
p-Cymene	0,1 - < 1	99-87-6	202-796-7		
2,6-Di-tert-butyl-p-cresol	0,25 - < 1	128-37-0	204-881-4		
Linalool	0,1 - < 1	78-70-6	201-134-4		
alpha-Hexylcinnamaldehyde	0,1 - < 1	101-86-0	202-983-3		
2-Benzylideneheptanal	0,1 - < 1	122-40-7	204-541-5		
Eugenol	0,1 - < 1	97-53-0	202-589-1		
Citronellol	0,1 - < 1	106-22-9	203-375-0		
3R-(3α,3aβ,6α,7β,8aα)]-octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl acetate	0,25 - < 1	77-54-3	201-036-1		
Cis-4-(isopropyl)cyclohexanemethanol	0,1 - < 1	13828-37-0	237-539-8		
Cedryl methyl ketone	0,25 - < 1	32388-55-9	251-020-3		
3-p-Cumenyl-2-methylpropionaldehyde	0,1 - < 1	103-95-7	203-161-7		
Pin-2(10)-ene	0,25 - < 1	127-91-3	204-872-5		
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	0,1 - < 1	4707-47-5	225-193-0		
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	0,1 - < 1	1205-17-0	214-881-6		
7-Methyl-3-methyleneocta-1,6-diene	0,25 - < 1	123-35-3	204-622-5		
Isoeugenol	0,1 - < 1	97-54-1	202-590-7		

Substance name	Hazard Class	H-phrases	Pictograms	
Cineole	Flam. Liq. 3; Skin Sens. 1B	H226; H317	GHS02; GHS07	
Benzyl benzoate	Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 2	H302; H400; H411	GHS07; GHS09	M (acute) = 1
L-menthol	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	H319 : C >= 25 % H315 : C >= 25 %
Benzyl salicylate	Eye Irrit. 2; Aquatic Chronic 3; Skin Sens. 1B	H319; H412; H317	GHS07	
d-Limonene	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 3	H226; H304; H315; H317; H400; H412	GHS02; GHS07; GHS08; GHS09	M (acute) = 1
2-Phenylethanol	Acute Tox. 4; Eye Irrit. 2	H302; H319	GHS07	
L-Menthan-3-one	Skin Irrit. 2; Skin Sens. 1B	H315; H317	GHS07	
Menthol	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07	H315 : C >= 25 % H319 : C >= 25 %
Isomenthone	Skin Irrit. 2; Skin Sens. 1B	H315; H317	GHS07	
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Aquatic Chronic 2	H411	GHS09	
p-Mentha-1,4-diene	Flam. Liq. 3; Repr. 2; Aquatic Chronic 2	H226; H361; H411	GHS02; GHS08; GHS09	
Pin-2(3)-ene	Flam. Liq. 3; Acute Tox. 4; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H226; H302; H304; H315; H317; H400; H410	GHS02; GHS07; GHS08; GHS09	M (acute) = 1 M (chronic) = 1

musk ketone	Carc. 2; Aquatic Acute 1; Aquatic Chronic 1	H351; H400; H410	GHS08; GHS09	M (acute) = 1 M (chronic) = 1
Linalyl acetate	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
p-Cymene	Flam. Liq. 3; Asp. Tox. 1; Repr. 2; Aquatic Chronic 2; Acute Tox. 3	H226; H304; H361; H411; H331	GHS02; GHS06; GHS08; GHS09	
2,6-Di-tert-butyl-p-cresol	Aquatic Acute 1; Aquatic Chronic 1	H400; H410	GHS09	M (acute) = 1
Linalool	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
alpha-Hexylcinnamaldehyde	Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 2	H317; H400; H411	GHS07; GHS09	M (acute) = 1
2-Benzylideneheptanal	Skin Sens. 1B; Aquatic Chronic 2	H317; H411	GHS07; GHS09	
Eugenol	Skin Sens. 1B; Eye Irrit. 2	H317; H319	GHS07	
Citronellol	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2	H315; H317; H319	GHS07	
3R-(3α,3aβ,6α,7β,8aα)]-octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl acetate	Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H317; H400; H410	GHS07; GHS09	M (acute) = 1
Cis-4-(isopropyl)cyclohexanemethanol	Skin Irrit. 2; Skin Sens. 1B	H315; H317	GHS07	
Cedryl methyl ketone	Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H317; H400; H410	GHS07; GHS09	M (acute) = 1 M (chronic) = 1
3-p-Cumenyl-2-methylpropionaldehyde	Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 3	H315; H317; H412	GHS07	
Pin-2(10)-ene	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1	H226; H304; H315; H317; H400; H410	GHS02; GHS07; GHS08; GHS09	M (acute) = 1 M (chronic) = 1
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Skin Sens. 1B	H317	GHS07	
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Skin Sens. 1B; Repr. 2; Aquatic Chronic 2	H317; H361fd; H411	GHS07; GHS08; GHS09	
7-Methyl-3-methyleneocta-1,6-diene	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2; Aquatic Acute 1; Aquatic Chronic 1	H226; H304; H315; H317; H319; H400; H410	GHS02; GHS07; GHS08; GHS09	
Isoeugenol	Acute Tox. 4; Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1A; Eye Irrit. 2; Acute Tox. 4; STOT SE 3	H302; H312; H315; H317; H319; H332; 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. 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	:	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 (CO_2). Foam. Dry chemical. Water fog.
Not suitable	:	Water jet. Use of heavy stream of water may spread fire.

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.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m3)	STEL 15 min (mg/m3)	Comments	Source
d-Limonene		28	80		MAC: DE, CH
Pin-2(3)-ene		113	-		MAC: BE
p-Cymene		140			MAC: SV, ET, LT
2,6-Di-tert-butyl-p-cresol	GB	10	-	-	

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Cineole	Inhalation				7,05 mg/m3
	Dermal				2 mg/kg bw/day
Benzyl benzoate	Inhalation		102 mg/m3		5,1 mg/m3
	Dermal				2,6 mg/kg bw/day
L-menthol	Inhalation	10 mg/m3		10 mg/m3	132 mg/m3
	Dermal				19 mg/kg bw/day
Benzyl salicylate	Inhalation				7,8 mg/m3
	Dermal				2,21 mg/kg bw/day
d-Limonene	Inhalation				66,7 mg/m3
	Dermal				9,5 mg/kg bw/day
2-Phenylethanol	Inhalation				59,9 mg/m3

	Dermal				21,2 mg/kg bw/day
L-Menthan-3-one	Inhalation				26,1 mg/m3
	Dermal				7,4 mg/kg bw/day
Menthol	Inhalation	1 mg/m3	66,28 mg/m3	1 mg/m3	66,28 mg/m3
	Dermal		9,4 mg/kg bw		9,4 mg/kg bw/day
3-Methyl-4-(2,6,6-trimethyl-2-cyclohex-en-1-yl)-3-buten-2-one	Inhalation				8.22 mg/m3
	Dermal				0.375 mg/kg bw/day
p-Mentha-1,4-diene	Inhalation				2,939 mg/m3
	Dermal				0,833 mg/kg bw/day
Pin-2(3)-ene	Inhalation				3,8 mg/m3
	Dermal				0,542 mg/kg bw/day
musk ketone	Inhalation				0,247 mg/m3
	Dermal				0,563 mg/kg bw/day
Linalyl acetate	Dermal	0,2362 mg/kg bw		0,2362 mg/kg bw/day	2,5 mg/kg bw/day
	Inhalation				2,75 mg/m3
p-Cymene	Inhalation				0,88 mg/m3
	Dermal				0,25 mg/kg bw/day
2,6-Di-tert-butyl-p-cresol	Inhalation				3,5 mg/m3
	Dermal				0,5 mg/kg bw/day
Linalool	Inhalation				24.58 mg/m3
	Dermal	3 mg/kg bw		3 mg/kg bw/day	3.5 mg/kg bw/day
alpha-Hexylcinnamaldehyde	Inhalation	6,28 mg/m3			0,078 mg/m3
	Dermal	0,525 mg/kg bw		0,525 mg/kg bw/day	18,2 mg/kg bw/day
2-Benzylideneheptanal	Inhalation				3,71 mg/m3
	Dermal	0,24 mg/kg bw		0,24 mg/kg bw/day	0,625 mg/kg bw/day
Eugenol	Inhalation				21,2 mg/m3
	Dermal				6 mg/kg bw/day
Citronellol	Inhalation	10 mg/m3		10 mg/m3	161,6 mg/m3
	Dermal	2,950 mg/kg bw			327,4 mg/kg bw/day
3R-(3α,3aβ,6α,7β,8aα)]-octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl acetate	Inhalation				0.639 mg/m3
	Dermal				0.091 mg/kg bw/day
Cedryl methyl ketone	Inhalation				1,17 mg/m3
	Dermal				0,333 mg/kg bw/day
3-p-Cumenyl-2-methylpropionaldehyde	Inhalation				5,83 mg/m3
	Dermal			0,00743 mg/kg bw/day	1,67 mg/kg bw/day
Pin-2(10)-ene	Inhalation				5,69 mg/m3
	Dermal			0,054 mg/kg bw/day	0,8 mg/kg bw/day
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Dermal			2,5 mg/kg bw/day	
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Inhalation				1,2 mg/m3
	Dermal			0,01 mg/kg bw/day	0,17 mg/kg bw/day

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term	DNEL, long-term

		Local effect	Systemic effect	Local effect	Systemic effect
Cineole	Inhalation				1,74 mg/m3
	Dermal				1 mg/kg bw/day
	Oral				600 mg/kg bw/day
Benzyl benzoate	Inhalation		25 mg/m3		1,25 mg/m3
	Dermal				1,3 mg/kg bw/day
	Oral		78 mg/kg bw		0,4 mg/kg bw/day
L-menthol	Inhalation			1,7 mg/m3	33 mg/m3
	Dermal				9,4 mg/kg bw/day
	Oral				9,4 mg/kg bw/day
Benzyl salicylate	Inhalation				1,37 mg/m3
	Dermal				0,79 mg/kg bw/day
	Oral				0,79 mg/kg bw/day
d-Limonene	Inhalation				16,6 mg/m3
	Dermal				4,8 mg/kg bw/day
	Oral				4,8 mg/kg bw/day
2-Phenylethanol	Inhalation				17,7 mg/m3
	Dermal				12,7 mg/kg bw/day
	Oral		5,1 mg/kg bw		5,1 mg/kg bw/day
L-Menthan-3-one	Inhalation				6,4 mg/m3
	Dermal				3,7 mg/kg bw/day
	Oral				3,7 mg/kg bw/day
Menthol	Inhalation	0,5 mg/m3	16,3 mg/m3	0,5 mg/m3	16,3 mg/m3
	Dermal		4,7 mg/kg bw		4,7 mg/kg bw/day
	Oral		4,7 mg/kg bw		4,7 mg/kg bw/day
3-Methyl-4-(2,6,6-trimethyl-2-cyclohex-en-1-yl)-3-buten-2-one	Inhalation				1.45 mg/m3
	Dermal				0.0446 mg/kg bw/day
	Oral				0.0355 mg/kg bw/day
p-Mentha-1,4-diene	Inhalation				0,725 mg/m3
	Dermal				0,417 mg/kg bw/day
	Oral				0,417 mg/kg bw/day
Pin-2(3)-ene	Inhalation				0,674 mg/m3
	Dermal				0,225 mg/kg bw/day
	Oral				0,225 mg/kg bw/day
musk ketone	Inhalation				0,0435 mg/m3
	Dermal				0,067 mg/kg bw/day
	Oral				0,025 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
p-Cymene	Oral				0,125 mg/kg bw/day
	Inhalation				0,22 mg/m3
	Dermal				0,125 mg/kg bw/day
2,6-Di-tert-butyl-p-cresol	Inhalation				0,86 mg/m3
	Dermal				0,25 mg/kg bw/day
	Oral				0,25 mg/kg bw/day
Linalool	Dermal	1.5 mg/kg bw		1.5 mg/kg bw/day	1.25 mg/kg bw/day
	Inhalation				4.33 mg/m3
	Oral				2.49 mg/kg bw/day
alpha-Hexylcinnamaldehyde	Inhalation	4,71 mg/m3			0,019 mg/m3
	Dermal	0,0787 mg/kg bw		0,0787 mg/kg bw/day	9,11 mg/kg bw/day

	Oral				0,056 mg/kg bw/day
2-Benzylideneheptanal	Oral				0,167 mg/kg bw/day
	Dermal	0,12 mg/kg bw		0,12 mg/kg bw/day	1,25 mg/kg bw/day
	Inhalation				0,922 mg/m3
Eugenol	Inhalation				5,22 mg/m3
	Dermal				3 mg/kg bw/day
	Oral				3 mg/kg bw/day
Citronellol	Inhalation	10 mg/m3		10 mg/m3	47,8 mg/m3
	Dermal	2,950 mg/kg bw			196,4 mg/kg bw/day
	Oral				13,8 mg/kg bw/day
3R-(3α,3aβ,6α,7β,8aα)]-octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl acetate	Dermal				0.181 mg/kg bw/day
	Oral				0.091 mg/kg bw/day
	Inhalation				0.158 mg/m3
Cedryl methyl ketone	Inhalation				0,29 mg/m3
	Dermal				0,167 mg/kg bw/day
	Oral				0,167 mg/kg bw/day
3-p-Cumenyl-2-methylpropionaldehyde	Inhalation				1,45 mg/m3
	Dermal			0,00372 mg/kg bw/day	0,83 mg/kg bw/day
	Oral				0,83 mg/kg bw/day
Pin-2(10)-ene	Inhalation				1 mg/m3
	Dermal			0,027 mg/kg bw/day	0,3 mg/kg bw/day
	Oral				0,3 mg/kg bw/day
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Dermal			1,25 mg/kg bw/day	
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

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Cineole	Water	0,057 mg/l	0,0057 mg/l	
	Sediment	1,425 mg/kg	0,1425 mg/kg	
	Intermittent water			0,57 mg/l
	STP			10 mg/l
	Soil			0,25 mg/kg
	Oral			40 mg/kg food
Benzyl benzoate	Water	0,017 mg/l	0,002 mg/l	
	Sediment	10,66 mg/kg	1,07 mg/kg	
	STP			100 mg/l
	Soil			2,12 mg/kg
L-menthol	Water	0,0156 mg/l	0,00156 mg/l	
	Sediment	0,289 mg/kg	0,0289 mg/kg	
	Intermittent water			0,156 mg/l
	STP			2,37 mg/l
	Soil			0,0484 mg/kg
	Oral			83,3 mg/kg food
Benzyl salicylate	Water	0.001 mg/l	0 mg/l	
	Sediment	0.583 mg/kg	0.058 mg/kg	

	Intermittent water			0,01030 mg/l
	STP			10 mg/l
	Soil			1.41 mg/kg
	Oral			52.7 mg/kg food
d-Limonene	Water	0.014 mg/l	0.0014 mg/l	
	Sediment	3.85 mg/kg	0.385 mg/kg	
	STP			1.8 mg/l
	Soil			0.763 mg/kg
	Oral			133 mg/kg food
2-Phenylethanol	Water	0,215 mg/l	0,0215 mg/l	
	Sediment	1,454 mg/kg	0,1454 mg/kg	
	Intermittent water			2,15 mg/l
	STP			10 mg/l
	Soil			0,164 mg/kg
L-Menthan-3-one	Water	0,0306 mg/l	0,0031 mg/l	
	Sediment	0,558 mg/kg	0,0558 mg/kg	
	Intermittent water			0,306 mg/l
	STP			2 mg/l
	Soil			0,093 mg/kg
	Oral			246,67 mg/kg food
Menthol	Water	0,0162 mg/l	0,00162 mg/l	
	Sediment	0,20112 mg/kg	0,02011 mg/kg	
	STP			3,06 mg/l
	Soil			0,03063 mg/kg
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Water	0.00143 mg/l	0.000143 mg/l	
	Sediment	0.443 mg/kg	0.0443 mg/kg	
	STP			10 mg/l
	Soil			0.0878 mg/kg
p-Mentha-1,4-diene	Water	0.003 mg/l	0 mg/l	
	Sediment	0.49 mg/kg	0.049 mg/kg	
	STP			10 mg/l
	Soil			0.423 mg/kg
Pin-2(3)-ene	Water	0.000606 mg/l	0.000061 mg/l	
	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
musk ketone	Water	0.000244 mg/l	0.0000244 mg/l	
	Sediment	0.0618 mg/kg	0.00618 mg/kg	
	STP			10 mg/l
	Soil			0.0122 mg/kg
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
p-Cymene	Water	0.004 mg/l	0 mg/l	
	Sediment	1.52 mg/kg	0.152 mg/kg	
	STP			10 mg/l
	Soil			0.302 mg/kg
2,6-Di-tert-butyl-p-cresol	Water	0,000199 mg/l	0,00002 mg/l	
	Sediment	0,0996 mg/kg	0,00996 mg/kg	
	STP			0,17 mg/l
	Soil			0,04769 mg/kg
	Oral			8,33 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
alpha-Hexylcinnamaldehyde	Water	0.001 mg/l		
	Sediment	3.2 mg/kg	0.064 mg/kg	
	Intermittent water			0,03 mg/l
	STP			10 mg/l
	Soil			0.398 mg/kg
	Oral			6.6 mg/kg food
2-Benzylideneheptanal	Water	0.002 mg/l	0 mg/l	
	Sediment	1.6 mg/kg	0.16 mg/kg	
	STP			100 mg/l
	Soil			0.317 mg/kg
Eugenol	Water	0.00113 mg/l	0.000113 mg/l	
	Sediment	0.081 mg/kg	0.008 mg/kg	
	Soil			0.015 mg/kg
Citronellol	Water	0.002 mg/l	0 mg/l	
	Sediment	0.026 mg/kg	0.003 mg/kg	
	Intermittent water			0,024 mg/l
	STP			580 mg/l
	Soil			0.004 mg/kg
3R-(3α,3aβ,6α,7β,8aα)]-octahydro -3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl acetate	Water	0 mg/l	0 mg/l	
	Sediment	0.011 mg/kg	0.001 mg/kg	
	STP			0.003 mg/l
	Soil			0.009 mg/kg
Cedryl methyl ketone	Water	0.00174 mg/l	0.000174 mg/l	
	Sediment	24.4 mg/kg	2.44 mg/kg	
	STP			10 mg/l
	Soil			4.87 mg/kg
3-p-Cumenyl-2-methylpropionaldehyde	Water	0,00109 mg/l	0,00011 mg/l	
	Sediment	0,126 mg/kg	0.013 mg/kg	
	Intermittent water			0,01092 mg/l
	STP			1 mg/l
	Soil			0.025 mg/kg
	Oral			33.3 mg/kg food
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
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	Water	0,0033 mg/l	0,00033 mg/l	
	Sediment	0,089 mg/kg	0,0089 mg/kg	
	STP			10 mg/l
	Soil			0,016 mg/kg
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

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 work.
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 when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES *

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid.	Impregnated material.
Colour	:	Yellow.	
Odour	:	Perfumed.	
Odour threshold	:	Not known.	Not measured. Not relevant.
pH	:	Not applicable.	Waterfree product.
Solubility in water	:	Not soluble.	
Partition coefficient (n-octanol/water)	:	Not known.	Not measured. Not relevant for mixtures.
Flash point	:	> 60 °C	
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 (d-Limonene)
	:		Upper explosion limit in air (%): 11,9 (2-Phenylethanol)
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.	
Relative vapour density	:	> 1	(air = 1)
Relative density (20°C)	:	1 g/ml	
Particle characteristics	:	Not applicable.	Liquid.

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 hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 28 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. No specific effects and/or symptoms are known.
- Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : 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 : 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: > 3381 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	:	Not expected to be carcinogenic. 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
Cineole	LD50 (oral)	2480 mg/kg bw	-----	Rat
	NOAEL (oral)	600 mg/kg bw/d	OECD 407	Rat
	Genotoxicity - in vitro	Not genotoxic		
	Mutagenicity	Not mutagenic		Salmonella typhimurium
	NOAEL (fertility, oral)	> 600 mg/kg bw/d	OECD 421	Rat
	Skin irritation	Non-irritant		
	LD50 (dermal) - estimate	> 2000 mg/kg bw	Read across	
Benzyl salicylate	NOAEL (fertility, oral)	158 mg/kg bw/d	OECD 421	Rat
	Skin sensitisation	725 ug/cm2	OECD 429	Mouse
	NOAEL (oral)	177 mg/kg bw/d	OECD 408	Rat
	Skin irritation	Non-irritant	OECD 404	Rabbit
	NOAEL (development, oral)	158 mg/kg bw/d	OECD 421	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster
	Eye irritation	Moderately irritant	-----	Rabbit
	LD50 (oral) - estimate	> 2000 mg/kg bw	Read across	
	LD50 (dermal) - estimate	> 2000 mg/kg bw	Read across	
d-Limonene	Genotoxicity - in vivo	> 2000 mg/kg bw/d		Rat
	NOEL (carcinogenicity, oral)	> 300 mg/kg bw/d	OECD 451	Rat
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Mutagenicity	Negative	OECD 471	
	Skin sensitisation	5500 ug/cm2	OECD 429	Mouse
	NOAEL (development, oral)	600 mg/kg bw/d		Rat
	Skin irritation	Irritant	-----	-----
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	LD50 (oral)	> 2000 mg/kg bw	OECD 423	Rat
	Genotoxicity - in vitro	Not genotoxic		
	NOAEL (oral)	150 mg/kg bw/d		Rat
L-Menthan-3-one	LD50 (oral) - estimate	> 2000 mg/kg bw	Read across	Rat
	LD50 (dermal) - estimate	> 2000 mg/kg bw	Read across	Rabbit
	Skin irritation - estimate	Irritant	Read across	
	Skin sensitisation - estimate	Sensitizing.	Read across	Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOAEL (oral) - estimate	> 750 mg/kg bw/d	Read across	Rat

	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Chinese Hamster
	NOEL (carcinogenicity) - estimate	Not carcinogenic	Read across	Rat
	NOAEL (development) - estimate	> 425 mg/kg.d	Read across	Rabbit
Isomenthone	LD50 (oral)	2119 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 4473 mg/kg bw		Rabbit
	Eye irritation	Slightly irritant	OECD 405	Rabbit
Pin-2(3)-ene	Skin sensitisation	Sensitizing.	-----	Guinea pig
	Skin irritation	Non-irritant	-----	Human
	NOAEL (fertility, oral)	749 mg/kg bw/d	OECD 421	Rat
	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 (inhalation)	170 mg/m3	OECD 413	Rat
	NOAEL (oral) - estimate	800 mg/kg bw/d	Read across	
	LD50 (oral)	500 mg/kg bw	OECD 423	Rat
	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rat
Linalyl acetate	Outdoor cleaners (excludes stone, concrete and similar surfaces)	1000 mg/kg bw/d	OECD 414	Rat
	LD50 (oral)	13934 mg/kg bw	-----	Rat
	LC50 (inhalation)	> 2740 mg/m3	-----	Mouse
	Skin irritation	Non-irritant	-----	Human
	Skin irritation	Irritant	OECD 404	Rabbit
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (oral)	160 mg/kg bw/d	OECD 407	Rat
	NOAEL (dermal)	250 mg/kg bw/d	OECD 411	Rat
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	Mouse
	Genotoxicity - in vivo	Not genotoxic	OECD 474	Mouse
	NOAEL (development, oral)	> 1000 mg/kg bw/d	OECD 414	Rat
	LC50 (inhalation) - estimate	> 5000 mg/m3	-----	Rat
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
Linalool	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
	Skin irritation	Mildly irritant	-----	Human
	LD50 (oral)	2790 mg/kg bw	-----	Rat
	NOAEL (oral)	117 mg/kg bw/d	-----	Rat
alpha-Hexylcinnamaldehyde	NOAEL (development, oral)	100 mg/kg bw/d	OECD 421	Rat
	Genotoxicity - in vivo	Not genotoxic	OECD 474	

	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Eye irritation	Non-irritant		Rabbit
	NOAEL (oral) - estimate	30 mg/kg bw/d	Read across	Rat
	LD50 (dermal)	> 3000 mg/kg bw	OECD 402	Rabbit
	LC50 (inhalation)	> 5000 mg/m3	OECD 403	Rat
	LD50 (oral)	> 2450 mg/kg bw	OECD 401	Rat
	Skin sensitisation	2372 ug/cm2	OECD 429	Mouse
	Skin irritation	Moderately irritant	OECD 404	Rabbit
	NOAEL (dermal)	25 mg/kg bw/d		Rat
2-Benzylideneheptanal	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rabbit
	Skin irritation	Non-irritant	-----	Rabbit
	Skin sensitisation	2942 ug/cm2	OECD 429	Mouse
	LD50 (oral)	2220 mg/kg bw	-----	Rat
	Eye irritation	Non-irritant	-----	Rabbit
	LC50 (inhalation) - estimate	> 5000 mg/m3	Read across	Rat
	Skin irritation	Non-irritant	Patch test	Human
Eugenol	LD50 (oral)	> 2000 mg/kg bw	OECD 423	Rat
	LC50 (inhalation)	> 2580 mg/m3	OECD 403	Rat
	LC50 (inhalation) - estimate	> 5000 mg/m3		Rat
	LD50 (dermal)	> 2000 mg/kg bw		Rat
	NOEL (carcinogenicity, oral)	300 mg/kg bw/d	-----	Rat
	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	Not genotoxic		
	Genotoxicity - in vivo	Genotoxic	OECD 474	Mouse
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	NOAEL (fertility) - estimate	> 700 mg/kg.d	Read across	Rat
	NOAEL (development, oral)	250 mg/kg bw/d		Rabbit
Citronellol	Genotoxicity - in vitro	Not genotoxic		
	Skin sensitisation	10875 ug/cm2	OECD 429	Mouse
	Mutagenicity	Not mutagenic	OECD 471	Salmonella typhimurium
	NOAEL (oral)	> 50 mg/kg bw/d		Rat
	Skin irritation	Moderately irritant		Rabbit
	LD50 (oral)	3450 mg/kg bw	-----	Rat
	LD50 (dermal)	2650 mg/kg bw		Rabbit
	NOAEL (fertility, dermal)	300 mg/kg bw/d	OECD 421	Rat
	NOAEL (developmental toxicity, dermal)	> 300 mg/kg bw/d	OECD 421	Rat
	Skin irritation	Moderately irritant	Patch test	Human
	Eye irritation	Moderately irritant		Rabbit
3R-(3α,3aβ,6α,7β,8aα)]-octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl acetate	LD50 (oral)	44750 mg/kg bw	OECD 401	Rat
	LC50 (inhalation)	12000 mg/m3		-----
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Skin irritation	Non-irritant	OECD 439	

	Eye irritation	Non-irritant	OECD 405	Rabbit
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
	Genotoxicity - in vitro	Not genotoxic	OECD 487	
Cis-4-(isopropyl)cyclohexanemethanol	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	LD50 (oral)	> 10000 mg/kg bw	-----	-----
Cedryl methyl ketone	NOAEL (fertility, oral)	50 mg/kg bw/d	-----	Rat
	NOAEL (development, oral)	100 mg/kg bw/d	-----	Rat
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	LD50 (oral)	5000 mg/kg bw	-----	Rat
3-p-Cumenyl-2-methylpropionaldehyde	Skin sensitisation	5575 ug/cm2	OECD 429	Mouse
	NOAEL (oral)	300 mg/kg bw/d		Rabbit
	Skin irritation	Slightly irritant		Rabbit
	LD50 (oral)	3810 mg/kg bw	-----	Rat
	NOAEL (fertility, oral)	25 mg/kg bw/d	OECD 415	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - estimate	> 2000 mg/kg bw/d	Read across	Mouse
	Eye irritation	Non-irritant		Rabbit
	LD50 (dermal)	> 5000 mg/kg bw	-----	Rat
Pin-2(10)-ene	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	Eye irritation	Moderately irritant	OECD 405	Rabbit
	NOAEL (development) - estimate	250 mg/kg.d	Read across	
	Skin irritation	Irritant	-----	-----
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	LD50 (oral)	> 5000 mg/kg bw		Rat
	LD50 (dermal)	> 5000 mg/kg bw		Rabbit
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rat
	Skin irritation	Non-irritant		
	Eye irritation	Non-irritant	OECD 405	Rabbit
Alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Skin sensitisation	4100 ug/cm2	OECD 429	-----
	NOAEL (dermal)	> 300 mg/kg bw/d	-----	Rat
	NOAEL (development, oral)	> 500 mg/kg bw/d		Rat
	Skin irritation	Non-irritant		
	LD50 (oral)	3600 mg/kg bw	-----	Rat
	LD50 (dermal)	> 2000 mg/kg bw	-----	Rabbit
	Skin irritation	Non-irritant		
	NOAEL (fertility, oral)	100 mg/kg bw/d	OECD 422	Rat
7-Methyl-3-methyleneocta-1,6-diene	Skin irritation	Irritant	ECVAM Episkin Skin Irritation Test	Human
	Eye irritation	Irritant	OECD 405	Rabbit
	NOAEL (development, oral)	500 mg/kg bw/d	OECD 414	Rat
	NOAEL (oral)	250 mg/kg bw/d	OECD 408	Rat
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	NOEL (carcinogenicity, oral)	500 mg/kg bw/d	OECD 451	Mouse
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	Genotoxicity - in vivo	Negative	OECD 474	Mouse
	NOAEL (fertility, oral)	300 mg/kg bw/d	OECD 415	Rat
	LD50 (oral)	> 11900 mg/kg bw	-----	Rat

Isoeugenol	LD50 (dermal)	> 5000 mg/kg bw	OECD 402	Rabbit
	Skin sensitisation	498 ug/cm2	OECD 429	Mouse
	Skin irritation	Moderately irritant	-----	Human
	Skin irritation	Severely irritant		Rabbit
	NOEL (carcinogenicity, oral)	Not carcinogenic	-----	Rat
	Mutagenicity	Negative	-----	Salmonella typhimurium
	LC50 (inhalation) - estimate	1500 mg/m3		
	LD50 (dermal) - estimate	1912 mg/kg bw		
	LD50 (oral)	1560 mg/kg bw	-----	Rat

11.2. Information on other hazards

Endocrine disrupting properties : Not applicable.
Other information : Not applicable.

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): 4 mg/l. Calculated EC50 (waterflea): 4 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. Endocrine disrupting properties

Endocrine disrupting properties : Not applicable.

12.7. Other adverse effects

Other adverse effects : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
Benzyl benzoate	IC50 (algea)	0,475 mg/l	OECD 201	Pseudokirchnerella subcapitata
	LC0 (fish)	1,9 mg/l	OECD 203	Brachydanio rerio
	LC100 (fish)	2,84 mg/l	OECD 203	Brachydanio rerio
	Ultimate aerobic biodegradation (%)	94 %	OECD 301 F	

	LC50 (fish)	2,32 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	3,09 mg/l	OECD 202	Daphnia magna
	NOEC (waterflea) - chronic	0,258 mg/l.d	OECD 211	Daphnia magna
Benzyl benzoate	Log P(ow)	3,97		
Benzyl benzoate	BCF	24		
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	LC50 (fish)	10,9 mg/l	OECD 203	Oncorhynchus mykiss
	Ultimate aerobic biodegradation (%)	61,8 %	OECD 301 B	
	EC50 (waterflea) - estimate	3,04 mg/l	-----	Daphnia magna
	EC50 (waterflea)	4,7 mg/l	OECD 202	Daphnia magna
	IC50 (algea)	> 20 mg/l	OECD 201	Desmodesmus subspicatus
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Log P(ow)	4,288		
Pin-2(3)-ene	Ultimate aerobic biodegradation (%)	62 %	OECD 301 B	
	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		
musk ketone	IC50 (algea)	0,244 mg/l	OECD 201	Pseudokirchnerella subcapitata
	LC50 (fish)	0,385 mg/l	OECD 203	Poecilia reticulata
	EC50 (waterflea)	0,432 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	0 %	OECD 302 C	
musk ketone	Log P(ow)	4,24		
2,6-Di-tert-butyl-p-cresol	NOEC (waterflea) - acute	0,23 mg/l	OECD 202	Daphnia magna
	NOEC (waterflea) - chronic	0,316 mg/l.d	OECD 202	Daphnia magna
	IC50 (algea)	> 0,4 mg/l	OECD 201	Desmodesmus subspicatus
	EC50 (waterflea)	0,61 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	4,5 %	OECD 301 C	
	EC0 (waterflea)	0,31 mg/l	OECD 202	Daphnia magna
	LC50 (bacteria)	> 10000 mg/l	-----	-----
	LC50 (fish)	> 5000 mg/l	OECD 203	Brachydanio rerio
2,6-Di-tert-butyl-p-cresol	Log P(ow)	5,1		
2,6-Di-tert-butyl-p-cresol	BCF	598,4		
3R-(3α,3aβ,6α,7β,8aα)]-octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl acetate	LC50 (fish)	15,61 mg/l	OECD 203	Brachydanio rerio
	EC50 (waterflea)	0,33 mg/l	OECD 202	Daphnia magna
	IC50 (algea)	> 0,31 mg/l	OECD 201	Pseudokirchnerella subcapitata
	Ultimate aerobic biodegradation (%)	73 %	OECD 301 D	
3R-(3α,3aβ,6α,7β,8aα)]-octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl acetate	Log P(ow)	6		
Cedryl methyl ketone	IC50 (algea)	2,80 mg/l	OECD 201	Algae
	EC50 (waterflea)	0,86 mg/l	OECD 202	Daphnia magna

	LC50 (fish)	2,3 mg/l	OECD 203	Pimephales promelas
	NOEC (waterflea) - chronic	0,087 mg/l.d	OECD 211	Daphnia magna
Cedryl methyl ketone	Log P(ow)	5,6		
Pin-2(10)-ene	LC50 (fish)	0,502 mg/l	OECD 203	Pimephales promelas
	EC50 (waterflea)	1,25 mg/l	OECD 202	Daphnia magna
	Ultimate aerobic biodegradation (%)	76 %	OECD 301 D	
	IC50 (algea)	0,826 mg/l	OECD 201	Pseudokirchnerella subcapitata
Pin-2(10)-ene	Log P(ow)	4,4		
7-Methyl-3-methyleneocta-1,6-diene	Ultimate aerobic biodegradation (%)	76 %	OECD 301 D	
	LC50 (fish) - estimate	> 100 mg/l	OECD 203	Cyprinus carpio
	EC50 (waterflea)	1,47 mg/l	OECD 202	Daphnia magna
	IC50 (algea)	0,342 mg/l	OECD 201	Pseudokirchnerella subcapitata
7-Methyl-3-methyleneocta-1,6-diene	Log P(ow)	5,285		
7-Methyl-3-methyleneocta-1,6-diene	BCF	739		

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 or ID number

UN nr. : UN 3082

14.2. UN proper shipping name

Transport name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate ; d-Limonene)

Transport name (IMDG, IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate ; d-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
- ERG code : 9L

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. Maritime transport in bulk according to IMO instruments

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 2020/878 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations. Directive 2008/98/EC (waste).

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 2020/878 dated 18 June 2020 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
UFI	:	Unique formula identifier
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.
Aquatic Chronic 2	:	Calculation method.

Full text of hazard classes mentioned in section 3:

Flam. Liq. 3	:	Flammable liquid, category 3.
Acute Tox. 3	:	Acute toxicity, 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.
Carc. 2	:	Carcinogen, category 2.
Repr. 2	:	Reproductive toxicity, category 2.
STOT SE 3	:	Specific target organ toxicity after single exposure, category 3.
Asp. Tox. 1	:	Aspiration hazard, category 1.
Aquatic Chronic 1	:	Hazardous to the aquatic environment — Chronic category 1.
Aquatic Chronic 2	:	Hazardous to the aquatic environment — Chronic category 2.
Aquatic Chronic 3	:	Hazardous to the aquatic environment — Chronic category 3.
Aquatic Acute 1	:	Hazardous to the aquatic environment — Acute category 1.

Full text of H-phrases mentioned in section 3:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H331	Toxic if inhaled.
H332	Harmful if inhaled.

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.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
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.