

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



POLYNESIAN FLOWER

Version 3.0 Revision Date: 03.10.2022

Date of last issue: 03.08.2022
Date of first issue: 03.04.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : POLYNESIAN FLOWER

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

Use of the Sub-stance/Mixture : Fragrance mix

1.3 Details of the supplier of the safety data sheet

Candle Supply Pty Ltd
Unit 3 8-9 Lagana Place
Wetherill Park, NSW 2164
ABN: 70612899626

Phone Number: 02 8741 4000
e-mail: customerservice@candlesupply.com.au

1.4 Emergency telephone number

13 11 26

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P261 Avoid breathing mist or vapours. P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection. Response: P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P391 Collect spillage.

Hazardous components which must be listed on the label:

3,7-Dimethyloctan-3-ol
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool
Phenethyl salicylate
 α -Hexylcinnamaldehyde
7-Hydroxycitronellal
Methyl salicylate
3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers
2-Benzylideneheptanal
(Z)-Hex-3-enyl benzoate
Linalyl acetate
Eugenol
(R)-p-mentha-1,8-diene; d-limonene
Geraniol
Citronellol
Piperonal
3-p-Cumenyl-2-methylpropionaldehyde
Caryophyllene
Pin-2(10)-ene
Geranyl acetate
Benzyl cinnamate
Pentadecan-15-olide
 α -Methyl-1,3-benzodioxole-5-propionaldehyde
Benzyl salicylate
citral
Phenylacetaldehyde
(E)-2-methoxy-4-(prop-1-enyl)phenol
isoeugenol

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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Benzyl acetate	140-11-4 205-399-7 01-2119638272-42 01-2119638272-42 01-2119638272-42 01-2119638272-42 01-2119638272-42	Aquatic Chronic 3; H412	>= 2,5 - < 10
3,7-Dimethyloctan-3-ol	78-69-3 201-133-9 01-2119454788-21 01-2119454788-21	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 10
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	78-70-6 201-134-4 603-235-00-2	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 10
(Z)-3-Hexenyl salicylate	65405-77-8	Aquatic Acute 1; H400	>= 2,5 - < 10

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	265-745-8		
	01-2119987320-37-0001, 01-2119987320-37-0009, 01-2119987320-37-0009	M-Factor (Chronic aquatic toxicity): 1	
Phenethyl salicylate	87-22-9 201-732-5	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	$\geq 2,5 - < 10$
α -Hexylcinnamaldehyde	165184-98-5 101-86-0 202-983-3	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	$\geq 1 - < 2,5$
7-Hydroxycitronellal	107-75-5 203-518-7 01-2119973482-31	Eye Irrit. 2; H319 Skin Sens. 1B; H317	$\geq 1 - < 10$
4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin	18096-62-3 241-997-4 01-2120760170-66-0000	Repr. 2; H361	$\geq 1 - < 3$
Methyl salicylate	119-36-8 204-317-7 01-2119515671-44-000101-2119515671-44	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1B; H317 Repr. 2; H361 Aquatic Chronic 3; H412 Acute toxicity estimate Acute oral toxicity: 887 mg/kg	$\geq 1 - < 2,5$
Isopentyl benzoate	94-46-2 202-334-4	Aquatic Chronic 3; H412	$\geq 1 - < 2,5$
3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers	7212-44-4 230-597-5	Eye Irrit. 2; H319 Skin Sens. 1B; H317 Aquatic Acute 1; H400	$\geq 1 - < 2,5$

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	01-2119457636-29	Aquatic Chronic 1; H410	
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
2-Benzylideneheptanal	122-40-7 204-541-5	Skin Sens. 1; H317 Aquatic Chronic 2; H411	$\geq 0,25 - < 1$
(Z)-Hex-3-enyl benzoate	25152-85-6 246-669-4	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	$\geq 0,25 - < 1$
Linalyl acetate	115-95-7 204-116-4	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	$\geq 0,1 - < 1$
Eugenol	97-53-0 202-589-1	Eye Irrit. 2; H319 Skin Sens. 1B; H317	$\geq 0,1 - < 1$
(R)-p-mentha-1,8-diene; d-limonene	5989-27-5 227-813-5 601-029-00-7	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0,25 - < 1$
Geraniol	106-24-1 203-377-1	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317	$\geq 0,1 - < 1$
Citronellol	106-22-9 203-375-0	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	$\geq 0,1 - < 1$
Piperonal	120-57-0 204-409-7 01-2119983608-21 01-2119983608-21	Skin Sens. 1B; H317	$\geq 0,1 - < 1$

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	01-2119983608-21		
reaction mass of cis-and trans-cyclohexadec-8-en-1-one	3100-36-5 401-700-2 606-046-00-3 01-0000015154-78-0001	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1	$\geq 0,25 - < 1$
3-p-Cumenyl-2-methylpropionaldehyde	103-95-7 203-161-7	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	$\geq 0,25 - < 1$
8-Cyclohexadecen-1-one	88642-03-9 3100-36-5 2550-59-6 448-300-4 606-046-00-3 01-0000018950-67-0001	Skin Irrit. 2; H315 Aquatic Acute 1; H400	$\geq 0,25 - < 1$
Caryophyllene	87-44-5 201-746-1	Skin Sens. 1B; H317 Asp. Tox. 1; H304	$\geq 0,1 - < 1$
4-Methylanisole	104-93-8 203-253-7	Acute Tox. 4; H302 Skin Irrit. 2; H315 Repr. 2; H361 Acute toxicity estimate Acute oral toxicity: 1.920 mg/kg	$\geq 0,1 - < 1$
Pin-2(10)-ene	127-91-3 18172-67-3 204-872-5 01-2119519230-54 01-2119519230-54 01-2119519230-54	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0,1 - < 0,25$
Geranyl acetate	105-87-3 203-341-5 01-2119973480-35	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	$\geq 0,1 - < 0,25$

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Benzyl cinnamate	103-41-3 203-109-3 01-2120762246-53-0000	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	$\geq 0,1 - < 0,25$
Pentadecan-15-olide	106-02-5 203-354-6 01-2119987323-31-0000, 01-2119987323-31-0002	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	$\geq 0,1 - < 0,25$
α -Methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0 214-881-6	Skin Sens. 1B; H317 Repr. 2; H361 Aquatic Chronic 2; H411	$\geq 0,1 - < 0,25$
Benzyl salicylate	118-58-1 204-262-9 01-2119969442-31 01-2119969442-31 01-2119969442-31	Eye Irrit. 2; H319 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	$\geq 0,1 - < 0,25$
citral	5392-40-5 226-394-6 605-019-00-3 01-2119462829-23	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	$\geq 0,1 - < 1$
Phenylacetaldehyde	122-78-1 204-574-5 01-2120766865-37-0000	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	$\geq 0,1 - < 0,25$
1-(3-methyl-1-benzofuran-2-yl)ethanone	23911-56-0 429-100-6 01-0000017540-77-0000, 01-2120900417-62-0000	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic	$\geq 0,1 - < 0,25$

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		aquatic toxicity): 10	
(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3 97-54-1 227-678-2 604-094-00-X 01-2120223682-61	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 STOT SE 3; H335 (Respiratory system) specific concentration limit Skin Sens. 1A; H317 >= 0,01 %	>= 0,01 - < 0,1
isoeugenol	97-54-1 202-590-7 604-094-00-X	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 STOT SE 3; H335 (Respiratory system) specific concentration limit Skin Sens. 1A; H317 >= 0,01 %	< 0,01
Substances with a workplace exposure limit :			
(2-Methoxymethylethoxy)propanol	34590-94-8 252-104-2 01-2119450011-60 01-2119450011-60 01-2119450011-60 01-2119450011-60 01-2119450011-60		>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.

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Do not leave the victim unattended.

- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : May cause an allergic skin reaction.
Causes serious eye irritation.

First aider needs to protect himself.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
There is no specific antidote available.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products : No hazardous combustion products are known

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5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : In the event of fire and/or explosion do not breathe fumes. Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : No special restrictions on storage with other products.

Storage class (TRGS 510) : 10, Combustible liquids

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Fragrance mix

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(2-Methoxymethylethoxy)propanol	34590-94-8	MAK (vapour)	50 ppm 310 mg/m ³	DFG
		TWA	50 ppm 308 mg/m ³	91/322/EEC
		TWA	50 ppm 308 mg/m ³	EU SCOEL
		AGW (Vapor and aerosol)	50 ppm 310 mg/m ³	DE TRGS 900
	Further information: Sum of vapors and aerosols.			
(R)-p-mentha-1,8-diene; d-limonene	5989-27-5	MAK	5 ppm 28 mg/m ³	DFG
		AGW	5 ppm 28 mg/m ³	DE TRGS 900
Oxydipropanol	25265-71-8	MAK (Vapor and aerosol, inhalable fraction.)	100 mg/m ³	DFG
		AGW (inhalable fraction)	100 mg/m ³	DE TRGS 900
	Further information: Sum of vapors and aerosols.			
n-butyl acetate	123-86-4	MAK	100 ppm 480 mg/m ³	DFG
		AGW	62 ppm	DE TRGS

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		300 mg/m ³	900
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Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value	
Benzyl propionate	Workers	Inhalation	Long-term systemic effects	12,3 mg/m ³	
	Workers	Skin contact	Long-term systemic effects	35 mg/kg bw/day	
	Consumers	Inhalation	Long-term systemic effects	1,85 mg/m ³	
	Consumers	Skin contact	Long-term systemic effects	12,5 mg/kg bw/day	
	Consumers	Ingestion	Long-term systemic effects	1,25 mg/kg bw/day	
	Methyl salicylate	Workers	Inhalation	Long-term systemic effects	17,5 mg/m ³
Workers		Skin contact	Long-term systemic effects	6 mg/kg bw/day	
Consumers		Inhalation	Long-term systemic effects	4 mg/m ³	
	Consumers	Skin contact	Long-term systemic effects	3 mg/kg bw/day	
	Consumers	Ingestion	Long-term systemic effects	1 mg/kg bw/day	
	3,7-Dimethyloctan-3-ol	Workers	Inhalation	Long-term systemic effects	11,14 mg/m ³
Workers		Skin contact	Long-term systemic effects	3,16 mg/kg bw/day	
Workers		Skin contact	Long-term local effects	0,19 mg/cm ²	
	Consumers	Inhalation	Long-term systemic effects	2,75 mg/m ³	
	Consumers	Skin contact	Long-term systemic effects	1,58 mg/kg bw/day	
	Consumers	Skin contact	Long-term local effects	0,19 mg/cm ²	
	Consumers	Ingestion	Long-term systemic effects	1,58 mg/kg bw/day	
	8-Cyclohexadecen-1-one	Workers	Inhalation	Long-term systemic effects	49,36 mg/m ³
		Workers	Skin contact	Long-term systemic effects	14 mg/kg bw/day
Consumers		Inhalation	Long-term systemic effects	8,696 mg/m ³	
	Consumers	Skin contact	Long-term systemic effects	5 mg/kg bw/day	
	Consumers	Ingestion	Long-term systemic effects	5 mg/kg bw/day	
	(Z)-3-Hexenyl salicylate	Workers	Inhalation	Long-term systemic effects	1,59 mg/m ³
Workers		Skin contact	Long-term systemic effects	0,9 mg/kg bw/day	

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	Consumers	Inhalation	Long-term systemic effects	0,39 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	0,45 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,23 mg/kg bw/day
Phenylacetaldehyde	Workers	Inhalation	Long-term systemic effects	4,94 mg/m ³
	Workers	Skin contact	Long-term systemic effects	0,7 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,87 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	0,25 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,25 mg/kg bw/day
Methyl benzoate	Workers	Inhalation	Long-term systemic effects	39,3 mg/m ³
	Workers	Skin contact	Long-term systemic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	9,68 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	5,57 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	5,57 mg/kg bw/day
Benzyl cinnamate	Workers	Inhalation	Long-term systemic effects	7,05 mg/m ³
	Workers	Skin contact	Long-term systemic effects	2 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,74 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1 mg/kg bw/day
4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin	Workers	Inhalation	Long-term systemic effects	0,43 mg/m ³
	Workers	Skin contact	Long-term systemic effects	0,12 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,076 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	0,044 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,044 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Benzyl propionate	Fresh water	0,00359 mg/l
	Fresh water sediment	0,08 mg/kg dry weight (d.w.)

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	Marine water	0,000359 mg/l
	Marine sediment	0,00798 mg/kg dry weight (d.w.)
	Sewage treatment plant	0,1 mg/l
	Soil	0,014 mg/kg dry weight (d.w.)
Methyl salicylate	Fresh water	0,0016 mg/l
	Fresh water sediment	0,04 mg/kg dry weight (d.w.)
	Marine water	0,00016 mg/l
	Marine sediment	0,004 mg/kg dry weight (d.w.)
	Sewage treatment plant	140 mg/l
	Soil	0,350 mg/kg dry weight (d.w.)
3,7-Dimethyloctan-3-ol	Fresh water	0,0089 mg/l
	Fresh water sediment	0,082 mg/kg dry weight (d.w.)
	Marine water	0,00089 mg/l
	Marine sediment	0,0082 mg/kg dry weight (d.w.)
	Sewage treatment plant	450 mg/l
	Soil	0,011 mg/kg dry weight (d.w.)
8-Cyclohexadecen-1-one	Fresh water	0,000265 mg/l
	Fresh water sediment	0,608 mg/kg dry weight (d.w.)
	Marine water	0,000026 mg/l
	Marine sediment	0,061 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Soil	0,121 mg/kg dry weight (d.w.)
(Z)-3-Hexenyl salicylate	Fresh water	0,00061 mg/l
	Fresh water sediment	0,11 mg/kg dry weight (d.w.)
	Marine water	0,000061 mg/l
	Marine sediment	0,011 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Soil	0,022 mg/kg dry weight (d.w.)
Phenylacetaldehyde	Fresh water	0,0016 mg/l
	Fresh water sediment	0,00986 mg/kg dry weight (d.w.)
	Marine water	0,00016 mg/l
	Marine sediment	0,000986 mg/kg dry weight (d.w.)
	Sewage treatment plant	0,15 mg/l
	Soil	0,00103 mg/kg dry weight (d.w.)
Methyl benzoate	Fresh water	0,023 mg/l

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	Fresh water sediment	0,492 mg/kg dry
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		weight (d.w.)
	Marine water	0,002 mg/l
	Marine sediment	0,049 mg/kg dry weight (d.w.)
	Sewage treatment plant	8,15 mg/l
	Soil	0,085 mg/kg dry weight (d.w.)
Benzyl cinnamate	Fresh water	0,000386 mg/l
	Fresh water sediment	0,188 mg/kg dry weight (d.w.)
	Marine water	0,000039 mg/l
	Marine sediment	0,019 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Soil	0,037 mg/kg dry weight (d.w.)
Pentadecan-15-olide	Fresh water	0,0027 mg/l
	Fresh water sediment	21 mg/kg dry weight (d.w.)
	Marine water	0,00027 mg/l
	Marine sediment	4,2 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Soil	5,44 mg/kg dry weight (d.w.)

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. Wear chemicals-resistant gloves, e.g. safety gloves of nitril (thickness 0.4mm) or of butyl rubber (thickness 0.7mm).

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Not required; except in case of aerosol formation.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	clear liquid
Colour	:	colorless to yellow-green
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	not determined
Upper explosion limit / Upper flammability limit	:	Vapours may form explosive mixtures with air.
Lower explosion limit / Lower flammability limit	:	Vapours may form explosive mixtures with air.
Flash point	:	89 °C
Decomposition temperature	:	not determined
pH	:	Not applicable
Viscosity		
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Solubility(ies)		
Water solubility	:	immiscible
Partition coefficient: n-octanol/water	:	Not applicable
Vapour pressure	:	< 1 kPa (50 °C) calculated
Relative density	:	not determined 0,9480 - 0,9580 (20 °C) relation to density of water at 4°C
Bulk density	:	Not applicable
Relative vapour density	:	not determined

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9.2 Other information

Explosives : Due to its structural properties, the product is not classified as explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : The substance or mixture is not classified as self heating.

Evaporation rate : Not applicable

Molecular weight : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

Benzyl acetate:

Acute oral toxicity : LD50 Oral: 2.490 mg/kg

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3,7-Dimethyloctan-3-ol:

Acute oral toxicity : LD50 Oral (Rat, male and female): 8.270 mg/kg
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg
GLP: No information available.

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Acute oral toxicity : LD50 (Rat, male and female): 2.790 mg/kg
Method: OECD Test Guideline 401
GLP: no
Remarks: Weight of Evidence

Acute dermal toxicity : LD50 (Rabbit): 5.610 mg/kg
Method: OECD Test Guideline 402
GLP: no

(Z)-3-Hexenyl salicylate:

Acute oral toxicity : LD50 Oral (Rat, male and female): 3.185 mg/kg
Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2.000 mg/kg
Method: Regulation (EC) No. 440/2008, Annex, B.3
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Phenethyl salicylate:

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

α -Hexylcinnamaldehyde:

Acute oral toxicity : LD50 Oral (Rat, male): 3.100 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit, female): > 3.000 mg/kg
Method: OECD Test Guideline 402
GLP: no

7-Hydroxycitronellal:

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Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Methyl salicylate:

Acute oral toxicity : LD50 (Rat, male and female): 887 mg/kg
Method: OECD Test Guideline 401
GLP: No information available.

Acute toxicity estimate: 887 mg/kg
Method: Calculation method

Isopentyl benzoate:

Acute oral toxicity : LD50 Oral (Rat): 6.298 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 4.975 mg/kg

3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers:

Acute oral toxicity : LD50 Oral (Rat): > 2.610 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

2-Benzylideneheptanal:

Acute oral toxicity : LD50 Oral (Rat): 3.730 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

(Z)-Hex-3-enyl benzoate:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

Linalyl acetate:

Acute oral toxicity : LD50 (Rat, male and female): > 9.000 mg/kg
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg
GLP: no

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Eugenol:

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD 423
GLP: No information available.

Acute inhalation toxicity : LC50 (Rat, male and female): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: No information available.

(R)-p-mentha-1,8-diene; d-limonene:

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg
Remarks: Information given is based on data obtained from similar substances.

Geraniol:

Acute oral toxicity : LD50 Oral (Rat, male and female): 3.600 mg/kg
GLP: No information available.

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg
GLP: no

Piperonal:

Acute oral toxicity : LD50 (Rat): 2.700 mg/kg

reaction mass of cis-and trans-cyclohexadec-8-en-1-one:

Acute oral toxicity : LD50 (Rat, male and female): > 10.000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 4.600 mg/kg
GLP: yes

3-p-Cumenyl-2-methylpropionaldehyde:

Acute oral toxicity : LD50 (Rat): 3.810 mg/kg

Acute dermal toxicity : LD50 Dermal (Rat): > 5.000 mg/kg

8-Cyclohexadecen-1-one:

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg
Method: OECD Test Guideline 420
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

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Caryophyllene:

Acute oral toxicity : LD50 (Mouse, male): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

4-Methylanisole:

Acute oral toxicity : LD50 (Rat): 1.920 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute toxicity estimate: 1.920 mg/kg
Method: Calculation method

Pin-2(10)-ene:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Geranyl acetate:

Acute oral toxicity : LD50 Oral (Rat, male and female): 6.330 mg/kg
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.460 mg/kg
GLP: no

Benzyl cinnamate:

Acute oral toxicity : LD50 (Rat, male and female): 3.280 mg/kg
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 3.000 mg/kg
GLP: no

α -Methyl-1,3-benzodioxole-5-propionaldehyde:

Acute oral toxicity : LD50 Oral (Rat, male and female): 3.561 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Benzyl salicylate:

Acute oral toxicity : LD50 Oral (Rat): 2.227 mg/kg

citral:

Acute oral toxicity : LD50 Oral (Rat, male and female): ca. 6.800 mg/kg
GLP: no

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Acute dermal toxicity : LD50 Dermal (Rabbit): 2.250 mg/kg
GLP: no

Phenylacetaldehyde:

Acute oral toxicity : LD50 Oral (Rat): 1.550 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

1-(3-methyl-1-benzofuran-2-yl)ethanone:

Acute oral toxicity : LD50 Oral (Rat, male and female): > 200 - < 2.000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

(E)-2-methoxy-4-(prop-1-enyl)phenol:

Acute oral toxicity : LD50 (Rat): 1.560 mg/kg

isoeugenol:

Acute oral toxicity : LD50 (Rat): 1.560 mg/kg

(2-Methoxymethylethoxy)propanol:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 500 mg/l
Exposure time: 7 h

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

Benzyl acetate:

Species : Rabbit
Exposure time : 4 h
Method : Regulation (EC) No. 440/2008, Annex, B.4
Result : No skin irritation
GLP : yes
Concentration : 100 %

3,7-Dimethyloctan-3-ol:

Species : Rabbit
Result : Skin irritation
GLP : no
Concentration : 100 %

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Species : reconstructed human epidermis (RhE)
Exposure time : 1 h
Method : OECD Test Guideline 439
Result : Skin irritation
Concentration : 100 %

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes
Concentration : 100 %

Phenethyl salicylate:

Species : Humans
Exposure time : 48 h
Method : Closed patch test
Result : No skin irritation
Concentration : 8 %
solvents : Petrolatum

Species : Guinea pig
Exposure time : 48 h
Result : Mild skin irritation
GLP : No information available.
Dose : 0.1 ml
Concentration : 0,25 %

α -Hexylcinnamaldehyde:

Species : Rabbit
Exposure time : 4 h
Method : Regulation (EC) No. 440/2008, Annex, B.4
Result : Mild skin irritation
GLP : yes
Dose : 0,5 ml
Concentration : 100 %

7-Hydroxycitronellal:

Species : Humans
Result : No skin irritation
Concentration : 5 %

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Mild skin irritation
GLP : yes

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Concentration : 100 %
Species : Humans
Exposure time : 24 h
Method : Human patch test
Result : No skin irritation
GLP : no
Concentration : 50 %
solvents : Olive oil

Methyl salicylate:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Mild skin irritation
GLP : yes
Concentration : 100 %

Isopentyl benzoate:

Species : Rabbit
Exposure time : 24 h
Result : Mild skin irritation
Dose : 5 ml/kg
Concentration : 100 %

3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers:

Species : Humans
Result : No skin irritation
Concentration : 4 %
Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : no
Concentration : 100 %

2-Benzylideneheptanal:

Species : Humans
Result : No skin irritation
Concentration : 32 %

(Z)-Hex-3-enyl benzoate:

Species : reconstructed human epidermis (RhE)
Exposure time : 15 min
Method : OECD Test Guideline 439
Result : No skin irritation
GLP : yes
Concentration : 100 %

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Linalyl acetate:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : No information available.
Concentration : 100 %

Eugenol:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Mild skin irritation
GLP : yes
Dose : 0,5 ml
Concentration : 100 %

Geraniol:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes
Concentration : 100 %

Citronellol:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes
Dose : 0.5 ml
Concentration : 100 %

Piperonal:

Species : Guinea pig
Result : No skin irritation
Concentration : 20 %

reaction mass of cis-and trans-cyclohexadec-8-en-1-one:

Species : Rabbit
Exposure time : 24 h
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes
Dose : 500 mg
Concentration : 100 %

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3-p-Cumenyl-2-methylpropionaldehyde:

Species : Humans
Result : Mild skin irritation
Concentration : 3 %

Species : Rabbit
Result : Irritating to skin.

8-Cyclohexadecen-1-one:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Irritating to skin.
GLP : yes
solvents : Olive oil

Caryophyllene:

Species : reconstructed human epidermis (RhE)
Exposure time : 1 h
Method : OECD 439
Result : No skin irritation
GLP : yes
Concentration : 100 %

Species : Humans
Exposure time : 48 h
Method : Closed patch test
Result : No skin irritation
Concentration : 4 %
solvents : Petrolatum

4-Methylanisole:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : no
Concentration : 100 %

Pin-2(10)-ene:

Species : Rabbit
Exposure time : 24 h
Result : Moderate irritation of skin

Species : Humans
Exposure time : 48 h
Method : Closed patch test
Result : No skin irritation
Concentration : 12 %
solvents : Petrolatum

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Benzyl cinnamate:

Species : reconstructed human epidermis (RhE)
Exposure time : 1 h
Method : OECD Test Guideline 439
Result : No skin irritation
GLP : yes
Concentration : 100 %

Pentadecan-15-olide:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Mild skin irritation
GLP : yes
Dose : 0,5 ml
Concentration : 100 %

α -Methyl-1,3-benzodioxole-5-propionaldehyde:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : no
Dose : 0,5 ml
Concentration : 100 %

Benzyl salicylate:

Species : Humans
Result : No skin irritation
Concentration : 30 %

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes
Concentration : 100 %

Phenylacetaldehyde:

Species : reconstructed human epidermis (RhE)
Method : OECD 431
Result : Corrosive
GLP : yes
Concentration : 100 %

1-(3-methyl-1-benzofuran-2-yl)ethanone:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Mild skin irritation

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GLP : yes
Dose : 0,5 ml
Concentration : 100 %

Species : Humans
Exposure time : 48 h
Method : Closed patch test
Result : No skin irritation
Concentration : 10 %
solvents : Diethylphthalate/Ethyl alcohol (1:1)

(E)-2-methoxy-4-(prop-1-enyl)phenol:

Species : Humans
Result : No skin irritation
Concentration : 20 %

Species : Rabbit
Exposure time : 24 h
Result : Severe skin irritation
Dose : 100 mg

(2-Methoxymethylethoxy)propanol:

Species : Rabbit
Result : Mild skin irritation
Dose : 500 mg

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Benzyl acetate:

Species : Rabbit
Method : Regulation (EC) No. 440/2008, Annex, B.5
Result : No eye irritation
GLP : yes
Concentration : 100 %

3,7-Dimethyloctan-3-ol:

Species : Rabbit
Result : Eye irritation
GLP : no
Dose : 0,05 ML
Concentration : 100 %

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritating to eyes.
GLP : no
Concentration : 100 %

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Remarks : Weight of Evidence

(Z)-3-Hexenyl salicylate:

Result : No eye irritation
Remarks : Information given is based on data obtained from similar substances.

Phenethyl salicylate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : yes
Dose : 0,1 G
Concentration : 100 %

α -Hexylcinnamaldehyde:

Species : Rabbit
Method : Regulation (EC) No. 440/2008, Annex, B.5
Result : No eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 100 %

7-Hydroxycitronellal:

Remarks : Irritating to eyes.

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

Species : Human EpiOcular Eye Model Test
Method : Human EpiOcular Eye Model Test
Result : No eye irritation
GLP : yes
Concentration : 100 %

Methyl salicylate:

Method : OECD Test Guideline 491
Result : Risk of serious damage to eyes.
GLP : yes

3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Eye irritation

2-Benzylideneheptanal:

Species : Rabbit
Result : No eye irritation
Dose : 0,1 ML

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(Z)-Hex-3-enyl benzoate:

Species : Chicken eye
Method : OECD Test Guideline 438
Result : No eye irritation
GLP : yes
Concentration : 100 %

Linalyl acetate:

Species : Rabbit
Result : Eye irritation
GLP : no
Concentration : 100 %

Eugenol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Eye irritation
Dose : 0,1 ML
Concentration : 100 %

Geraniol:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Corrosive
GLP : yes
Concentration : 100 %

Citronellol:

Species : Rabbit
Method : Draize Test
Result : Eye irritation
GLP : No information available.
Dose : 0.1 ML
Concentration : 100 %

Piperonal:

Remarks : No eye irritation

reaction mass of cis-and trans-cyclohexadec-8-en-1-one:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 10 %

3-p-Cumenyl-2-methylpropionaldehyde:

Species : Rabbit

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Result : No eye irritation
Dose : 0,1 ML
Concentration : 6 %
solvents : Propylene glycol

8-Cyclohexadecen-1-one:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 100 %

Caryophyllene:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : yes
Concentration : 100 %

4-Methylanisole:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : no
Concentration : 100 %

Geranyl acetate:

Species : Rabbit
Exposure time : 24 h
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 100 %

Benzyl cinnamate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes
Concentration : 100 %

Pentadecan-15-olide:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation
GLP : yes
Dose : 0,1 ML

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Concentration : 100 %
Remarks : Information given is based on data obtained from similar substances.

α -Methyl-1,3-benzodioxole-5-propionaldehyde:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : no
Dose : 0,1 ML
Concentration : 100 %

Benzyl salicylate:

Species : Rabbit
Method : Draize Test
Result : Eye irritation
GLP : no
Dose : 0,1 ML

citral:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Eye irritation
GLP : no
Concentration : 100 %

1-(3-methyl-1-benzofuran-2-yl)ethanone:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes
Dose : 0,1 ML
Concentration : 100 %

(2-Methoxymethylethoxy)propanol:

Species : Rabbit
Exposure time : 24 h
Result : Mild eye irritation
Dose : 500 MG

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

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Components:

Benzyl acetate:

Species : Guinea pig
Method : OECD Test Guideline 406
Result : No sensitizing effect.

3,7-Dimethyloctan-3-ol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 7,6 %
solvents : Ethyl Methyl Ketone

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 35,5 %
solvents : N,N-Dimethylformamide

(Z)-3-Hexenyl salicylate:

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : No sensitizing effect.
GLP : yes
Concentration : 100 %

Phenethyl salicylate:

Species : Humans
Result : No sensitizing effect.
Concentration : 8 %

Test Type : Maximisation Test
Species : Guinea pig
Method : Maximisation Test
Result : Causes sensitisation.
GLP : No information available.
Rate of positive effects : 3/10
Concentration : 10 %
solvents : Acetone

Test Type : Local Lymph Node Assay
Species : CBA/Ca
Method : OECD 429
Result : Causes sensitisation.

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Concentration : 2,1 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

α-Hexylcinnamaldehyde:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : No information available.
Concentration : 6,6 - 11,5 %
solvents : Acetone/Olive oil (4:1)

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

Test Type : Direct Peptide Reactivity Assay (DPRA)
Method : OECD Test Guideline 442C
Result : No sensitizing effect.
GLP : yes

Test Type : KeratinoSens assay
Method : OECD Test Guideline 442D
Result : No sensitizing effect.
GLP : yes

Isopentyl benzoate:

Test Type : Maximisation Test
Species : Humans
Method : Maximisation Test
Result : No sensitizing effect.
Concentration : 6 %
solvents : Petrolatum

3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.

2-Benzylideneheptanal:

Species : Humans
Result : No sensitizing effect.
Concentration : 6 %

Species : Guinea pig
Result : Sensitizing effect.
Concentration : 10 %

Test Type : Local Lymph Node Assay
Species : Mouse
Result : Sensitizing effect.

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(Z)-Hex-3-enyl benzoate:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 24 %
solvents : Acetone/Olive oil (4:1)

Eugenol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : No information available.
Concentration : > 5,4 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Geraniol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : No information available.
Concentration : 11,4 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Citronellol:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 43,5 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Test Type : HRIPT
Species : Humans
Result : No sensitizing effect.
Concentration : 25 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

reaction mass of cis-and trans-cyclohexadec-8-en-1-one:

Test Type : Magnusson & Kligmann test
Species : Guinea pig
Result : No sensitizing effect.
GLP : yes
Concentration : 25 %
solvents : Vaseline

Test Type : HRIPT

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Species : Humans
Result : No sensitizing effect.
GLP : no
Concentration : 20 %
solvents : Diethylphthalate/Ethyl alcohol (1:1)

3-p-Cumenyl-2-methylpropionaldehyde:

Test Type : HRIPT
Species : Humans
Result : No sensitizing effect.
Concentration : 2 %

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : No information available.
Concentration : 22,3 %
solvents : Acetone/Olive oil (4:1)

8-Cyclohexadecen-1-one:

Test Type : Magnusson & Kligmann test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : No sensitizing effect.
GLP : yes
Concentration : 75 %
solvents : Diethylphthalate/Ethyl alcohol (1:1)

Caryophyllene:

Test Type : Freund's complete adjuvant test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Sensitizing effect.
Concentration : 6,8 %

Test Type : Maximisation Test
Species : Humans
Result : No sensitizing effect.
Concentration : 4 %
solvents : Petrolatum

4-Methylanisole:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : No sensitizing effect.
GLP : yes
Concentration : 50 %
solvents : Ethyl Methyl Ketone

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Pin-2(10)-ene:

Test Type : Maximisation Test
Species : Humans
Result : No sensitizing effect.
Concentration : 12 %
solvents : Petrolatum

Geranyl acetate:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 100 %

Benzyl cinnamate:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 18,4 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Pentadecan-15-olide:

Test Type : HRIPT
Species : Humans
Result : No sensitizing effect.
Concentration : 10 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 25,5 %
solvents : Acetone/Olive oil (4:1)

α -Methyl-1,3-benzodioxole-5-propionaldehyde:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 16,4 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Benzyl salicylate:

Test Type : Local Lymph Node Assay

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Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : yes
Concentration : 2,9 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

citral:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
Concentration : 6,3 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Sensitizing effect.
GLP : no
Concentration : 6,3 %
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Phenylacetaldehyde:

Test Type : Local Lymph Node Assay
Species : Mouse
Method : OECD 429
Result : Sensitizing effect.
GLP : no
Concentration : 3 %
solvents : Acetone/Olive oil (4:1)

1-(3-methyl-1-benzofuran-2-yl)ethanone:

Test Type : Local Lymph Node Assay
Species : Mouse
Result : No sensitizing effect.
GLP : yes
Concentration : 30 %
solvents : Acetone

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : No sensitizing effect.
GLP : yes
Concentration : 50 %
solvents : Diethylphthalate/Ethyl alcohol (1:1)

Test Type : HRIPT
Species : Humans
Result : No sensitizing effect.
Concentration : 20 %

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solvents : Diethylphthalate/Ethyl alcohol (3:1)

(E)-2-methoxy-4-(prop-1-enyl)phenol:

Species : Humans
Result : Sensitizing effect.
Concentration : 5 %

(2-Methoxymethylethoxy)propanol:

Result : No sensitizing effect.

Germ cell mutagenicity

Not classified based on available information.

Components:

Benzyl acetate:

Genotoxicity in vitro : Test Type: In vitro Mammalian Chromosome Aberration Test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

3,7-Dimethyloctan-3-ol:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test

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Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

(Z)-3-Hexenyl salicylate:

Genotoxicity in vitro : Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: negative
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

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Remarks: Information given is based on data obtained from similar substances.

Phenethyl salicylate:

Genotoxicity in vitro

: Test Type: Ames test
Test system: TA97a
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: Ames test
Test system: TA98
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: Ames test
Test system: TA100
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: Ames test
Test system: TA102
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: Ames test
Test system: TA1535
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

α -Hexylcinnamaldehyde:

Genotoxicity in vitro

: Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: No information available.

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

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Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Strain: NMRI
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative
GLP: No information available.

7-Hydroxycitronellal:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Genotoxicity in vivo : Test Type: Micro nucleus test
Species: Mouse
Result: negative

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In Vitro Mammalian Cell Micronucleus Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Methyl salicylate:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: No information available.

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Chinese hamster lung cells
Method: OECD 473
Result: negative
GLP: No information available.

2-Benzylideneheptanal:

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Genotoxicity in vitro : Test Type: Ames test
Result: negative

(Z)-Hex-3-enyl benzoate:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: Ames test
Test system: WP2 uvrA
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Linalyl acetate:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Strain: CD1
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Eugenol:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471

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Result: negative
GLP: No information available.

Test Type: In vitro Mammalian Chromosome Aberration Test
Method: OECD 473
Result: positive
GLP: No information available.

Test Type: In vitro Mammalian Cell Gene Mutation Test
Method: OECD 476
Result: positive
GLP: No information available.

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male)
Method: OECD 474
Result: negative
GLP: No information available.

Geraniol:

Genotoxicity in vitro : Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative
GLP: No information available.

Test Type: In vitro Mammalian Chromosome Aberration Test
Result: equivocal
GLP: No information available.

Test Type: sister chromatid exchange assay
Test system: Chinese hamster ovary cells
Result: negative
GLP: No information available.

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Citronellol:

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Genotoxicity in vitro

: Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD 471

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Result: negative

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

reaction mass of cis-and trans-cyclohexadec-8-en-1-one:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Oral
Method: OECD 474
Result: negative
GLP: yes

3-p-Cumenyl-2-methylpropionaldehyde:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

8-Cyclohexadecen-1-one:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: negative

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GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Caryophyllene:

Genotoxicity in vitro

: Test Type: In Vitro Mammalian Cell Micronucleus Test
Test system: Human lymphocytes
Method: OECD 487
Result: negative

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: positive

Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative

Genotoxicity in vivo

: Test Type: sister chromatid exchange assay
Species: Mouse (male)
Cell type: Bone marrow
Application Route: Oral
Result: negative

Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

4-Methylanisole:

Genotoxicity in vitro

: Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: No information available.

Geranyl acetate:

Genotoxicity in vitro

: Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

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Benzyl cinnamate:

Genotoxicity in vitro : Test Type: In Vitro Mammalian Cell Micronucleus Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD 487
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Pentadecan-15-olide:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

α -Methyl-1,3-benzodioxole-5-propionaldehyde:

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Benzyl salicylate:

Genotoxicity in vitro : Test Type: Ames test
Test system: Mammal cells
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative

citral:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative

Test Type: In vitro Mammalian Cell Gene Mutation Test

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Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: negative

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Phenylacetaldehyde:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Test Type: In Vitro Mammalian Cell Micronucleus Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD 487
Result: negative
GLP: yes

1-(3-methyl-1-benzofuran-2-yl)ethanone:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: negative
GLP: yes

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(E)-2-methoxy-4-(prop-1-enyl)phenol:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

(Z)-3-Hexenyl salicylate:

Species : Rat, male and female
NOAEL : 200 mg/kg
Application Route : Oral
Number of exposures : daily
Method : OECD Test Guideline 422
GLP : yes

Linalyl acetate:

Species : Rat, male and female
NOAEL : 160 mg/kg
Application Route : Oral
Exposure time : 28 d
Number of exposures : daily
Method : OECD Test Guideline 407
GLP : yes

Species : Rat, male and female
NOAEL : 250 mg/kg
Application Route : Dermal
Exposure time : 91 d
Number of exposures : daily
Method : OECD Test Guideline 411
GLP : yes

8-Cyclohexadecen-1-one:

Species : Rat, male and female
NOAEL : >= 1000 mg/kg bw/day
Application Route : Oral
Exposure time : 90 d
Method : OECD 408
GLP : yes

Remarks : Information given is based on data obtained from similar sub-

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stances.

Benzyl cinnamate:

Species : Rat
NOAEL : 600 mg/kg
Application Route : Oral
Method : OECD Test Guideline 422
GLP : yes

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Components:

Pin-2(10)-ene:

Remarks : Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Benzyl acetate:

Toxicity to fish : LC50 (*Oryzias latipes* (Japanese medaka)): 4 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 17 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

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Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 110 mg/l
End point: Growth rate

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Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 52 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : EC50 (Activated sludge): 855 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: yes

Toxicity to fish (Chronic toxicity) : NOEC: 0,92 mg/l
Exposure time: 28 d
Species: Oryzias latipes (Japanese medaka)
Test Type: flow-through test
Analytical monitoring: yes

3,7-Dimethyloctan-3-ol:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 8,9 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 14,2 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 21,6 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

EC10 (Desmodesmus subspicatus (green algae)): 9,5 mg/l

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End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

Toxicity to microorganisms : EC10 (*Pseudomonas putida*): 450 mg/l
End point: Respiration inhibition
Exposure time: 0,5 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 27)
GLP: no

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 27,8 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 59 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 156,7 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

EC10 (*Desmodesmus subspicatus* (green algae)): 54,3 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

Toxicity to microorganisms : EC50 (Activated sludge): > 100 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: yes

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Method: OECD 209
GLP: yes

(Z)-3-Hexenyl salicylate:

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 0,65 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: No effect in the area of water solubility of the substance

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* Straus): 0,6 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 0,61 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

EC10 (*Desmodesmus subspicatus* (green algae)): 0,19 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

α -Hexylcinnamaldehyde:

Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 1,7 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): > 0,36 - < 0,59 mg/l
End point: Immobilization
Exposure time: 48 h

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Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 0,065 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 0,065 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 0,069 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD 211
GLP: yes

7-Hydroxycitronellal:

Toxicity to fish : LC50 (Golden orfe (Leuciscus idus)): 22 - 46 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 410 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 68 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC10 (Pseudomonas putida): 625 mg/l
Exposure time: 17 h

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

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Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes

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Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna*): > 100 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

EC10 (*Pseudokirchneriella subcapitata* (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Methyl salicylate:

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 1,6 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOEC (*Desmodesmus subspicatus* (green algae)): 0,79 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : EC10 (*Pseudomonas putida*): 140 mg/l
End point: Growth inhibition
Exposure time: 16 h
Test Type: static test
Analytical monitoring: no
GLP: no

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Isopentyl benzoate:

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 15,1 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201

3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 0,51 mg/l
Exposure time: 48 h
Test Type: static test
Method: 79/831/ECC
GLP: no

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 2 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC20 (Activated sludge): 180 mg/l
Exposure time: 0,5 h
Method: OECD 209

M-Factor (Chronic aquatic toxicity) : 1

2-Benzylideneheptanal:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 3 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 1,1 mg/l
Exposure time: 48 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: yes

Toxicity to algae/aquatic plants : EC50 : 1,89 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Activated sludge): > 10.000 mg/l
Method: OECD 209 / ISO 8192 - 1986 (E)
GLP: yes

(Z)-Hex-3-enyl benzoate:

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Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1,5 mg/l
aquatic invertebrates
End point: Immobilization
Exposure time: 48 h

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Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 1,3 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

EC10 (*Pseudokirchneriella subcapitata* (green algae)): 0,38 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Linalyl acetate:

Toxicity to fish : LC50 (*Cyprinus carpio* (Carp)): 11 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 59 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC10 (*Desmodesmus subspicatus* (green algae)): 54,3 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

EC50 (*Desmodesmus subspicatus* (green algae)): 156,7 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no

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Method: DIN 38412 (part 9)
GLP: no

Toxicity to microorganisms : EC20 (Activated sludge): > 1.000 mg/l
End point: Respiration inhibition
Exposure time: 0,5 h
Test Type: static test
Analytical monitoring: no
Method: ISO 8192
GLP: no

Eugenol:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 13 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,13 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 24 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Geraniol:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): ca. 22 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 10,8 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

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Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 13,1 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test

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Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

EC10 (Desmodesmus subspicatus (green algae)): 3,77 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Toxicity to microorganisms : EC50 (Activated sludge): 144 mg/l
Exposure time: 96 h
Method: ISO 8192
GLP: yes

Citronellol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 14,66 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (Part 15)
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 17,48 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: 79/831/ECC
GLP: no

EC50 (Daphnia magna (Water flea)): 17,48 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: 79/831/ECC
GLP: no

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10.000 mg/l
End point: Respiration inhibition
Exposure time: 0,5 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 27)
GLP: no

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reaction mass of cis-and trans-cyclohexadec-8-en-1-one:

- Toxicity to fish : LC50 (Rainbow trout (*Salmo gairdneri*)): 0,75 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD 203 / ISO 7346
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0,23 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 0,47 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
- ErC10 (*Pseudokirchneriella subcapitata* (green algae)): 0,119 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to microorganisms : EC50 (Activated sludge): > 10.000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Method: OECD 209 / ISO 8192
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >= 0,0141 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Test Type: semi-static test
GLP: yes

3-p-Cumenyl-2-methylpropionaldehyde:

- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna*): 1,4 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202
GLP: yes

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Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 3,8 mg/l

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Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,7 mg/l

Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : EC50 (Activated sludge): ca. 100 mg/l
Exposure time: 3 h
Test Type: static test
Method: OECD 209
GLP: yes

8-Cyclohexadecen-1-one:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0,279 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: No effect in the area of water solubility of the substance

LC50 (Gobiocypris rarus (rare gudgeon)): > 0,349 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes
Remarks: No effect in the area of water solubility of the substance

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,853 mg/l
Exposure time: 48 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: No effect in the area of water solubility of the substance

EC50 (Daphnia magna (Water flea)): 0,256 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

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Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 0,912 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: No effect in the area of water solubility of the substance

EC10 (Desmodesmus subspicatus (green algae)): > 0,912 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: No effect in the area of water solubility of the substance

Toxicity to microorganisms : EC50 (Activated sludge): > 1.000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: yes

Toxicity to soil dwelling organisms : LC50: 123,40 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207
GLP:yes

Caryophyllene:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,17 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,033 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

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EC10 (Pseudokirchneriella subcapitata (green algae)): > 0,033 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

4-Methylanisole:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 27 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412
GLP: no

EC10 (Desmodesmus subspicatus (green algae)): 279,03 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412
GLP: no

Geranyl acetate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna Straus): 14,1 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 3,72 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

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NOEC (*Desmodesmus subspicatus* (green algae)): 0,585 mg/l

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End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : EC20 (Activated sludge): ca. 800 mg/l
End point: Respiration inhibition
Exposure time: 0,5 h
Test Type: static test
Analytical monitoring: no
Method: ISO 8192
GLP: no

Benzyl cinnamate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0,643 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 2,8 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,386 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

EC10 (Pseudokirchneriella subcapitata (green algae)): 0,122 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

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Pentadecan-15-olide:

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,17 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: No effect in the area of water solubility of the substance
- Toxicity to algae/aquatic plants : ErC10 (Desmodesmus subspicatus (green algae)): 0,421 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.3.
GLP: yes
- Toxicity to microorganisms : EC50 (Activated sludge): > 10.000 mg/l
End point: Respiration inhibition
Exposure time: 30 min
Test Type: Respiration inhibition
Analytical monitoring: no
Method: OECD 209
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,068 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD 211
GLP: yes

α -Methyl-1,3-benzodioxole-5-propionaldehyde:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5,3 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna Straus): 8,3 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

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- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): 28 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
- NOEC (Pseudokirchneriella subcapitata (algae)): 6,25 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
- Toxicity to microorganisms : EC50 (Activated sludge): 100 - 1.000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD 209
GLP: yes
- NOEC (Activated sludge): 100 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD 209
GLP: yes
- Benzyl salicylate:**
- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1,03 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.1.
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 1,16 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 1,29 mg/l
End point: Growth rate
Exposure time: 72 h

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Method: OECD Test Guideline 201
GLP: yes

NOEC (*Pseudokirchneriella subcapitata* (green algae)): 0,502 mg/l
End point: Growth rate
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

Toxicity to soil dwelling organisms : LC50: > 1.000 mg/kg
Exposure time: 14 d
End point: mortality
Species: *Eisenia fetida* (earthworms)
Method: OECD Test Guideline 207
GLP: yes

citral:

Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): 6,78 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Method: DIN 38412
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 6,8 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: no

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 103,8 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

EC10 (*Desmodesmus subspicatus* (green algae)): 3 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

Toxicity to microorganisms : EC50 (Activated sludge): ca. 160 mg/l
Exposure time: 0,5 h
Test Type: static test
Method: OECD 209
GLP: no

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Phenylacetaldehyde:

- Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 6,2 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 20 mg/l
Exposure time: 48 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: yes
- Toxicity to algae/aquatic plants : EC10 (Pseudokirchneriella subcapitata (green algae)): 0,86 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
- EC50 (Pseudokirchneriella subcapitata (green algae)): 1,6 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

1-(3-methyl-1-benzofuran-2-yl)ethanone:

- Toxicity to fish : LC50 (Zebrafish (Brachydanio rerio)): 11 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.1.
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,1 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: yes

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Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 15,6 mg/l
Exposure time: 72 h

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Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 9,1 mg/l
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : EC50 (Activated sludge): > 200 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Method: OECD 209
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0099 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD 211
GLP: yes

M-Factor (Chronic aquatic toxicity) : 10

(E)-2-methoxy-4-(prop-1-enyl)phenol:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 7,5 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

isoeugenol:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 7,5 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

(2-Methoxymethylethoxy)propanol:

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Toxicity to fish : LC50 (Fathead minnow (*Pimephales promelas*)): > 10.000 mg/l

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna*): 1.919 mg/l

Toxicity to algae/aquatic plants : EC50 (*Scenedesmus capricornutum* (fresh water algae)): > 969 mg/l
Exposure time: 96 h

12.2 Persistence and degradability

Components:

Benzyl acetate:

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO₂):
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: no

3,7-Dimethyloctan-3-ol:

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO₂):
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

Test Type: Manometric respiration test
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 60 - 70 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 64,2 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

(Z)-3-Hexenyl salicylate:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 89 %
Exposure time: 28 d

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Method: OECD 301F
GLP: yes

Phenethyl salicylate:

Biodegradability : Test Type: Manometric Respirometry Test
Result: Readily biodegradable.
Biodegradation: 93 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

α -Hexylcinnamaldehyde:

Biodegradability : Test Type: Manometric Respirometry Test
Result: Readily biodegradable.
Biodegradation: 97 %
Exposure time: 28 d
Method: OECD 301F
GLP: no

7-Hydroxycitronellal:

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO₂):
Result: Readily biodegradable.
Biodegradation: 93,7 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

Biodegradability : Test Type: Closed Bottle test
Result: Not readily biodegradable.
Biodegradation: 5 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

Methyl salicylate:

Biodegradability : Test Type: CO₂ Evolution Test
Result: Readily biodegradable.
Biodegradation: 98,4 %
Exposure time: 28 d
Method: OECD 301B
GLP: No information available.

Isopentyl benzoate:

Biodegradability : Result: Readily biodegradable.

3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.

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Biodegradation: 86 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 70 - 80 %
Exposure time: 28 d
Method: OECD 301F

2-Benzylideneheptanal:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301F

(Z)-Hex-3-enyl benzoate:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 88 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

Linalyl acetate:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 76 %
Exposure time: 28 d
Method: OECD 301F
GLP: no

Eugenol:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

(R)-p-mentha-1,8-diene; d-limonene:

Biodegradability : Test Type: CO2 Evolution Test
Result: Readily biodegradable.
Biodegradation: 71 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

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Geraniol:

Biodegradability : Test Type: Closed bottle test, OECD 301-D, (BOD[28]/COD):
Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

Test Type: Manometric Respirometry Test
Result: Readily biodegradable.
Biodegradation: 86 %
Exposure time: 28 d
Method: OECD 301
GLP: yes

Citronellol:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 80 - 90 %
Exposure time: 28 d
GLP: no

Piperonal:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

reaction mass of cis-and trans-cyclohexadec-8-en-1-one:

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO₂):
Result: Readily biodegradable.
Biodegradation: 72 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

3-p-Cumenyl-2-methylpropionaldehyde:

Biodegradability : Test Type: CO₂ Evolution Test
Result: Readily biodegradable.
Biodegradation: 66 %
Exposure time: 28 d
Method: OECD 301B
GLP: No information available.

8-Cyclohexadecen-1-one:

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Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 80 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Caryophyllene:

Biodegradability : Test Type: Headspace Test
Result: Readily biodegradable.
Biodegradation: 64 %
Exposure time: 28 d
Method: OECD Test Guideline 310
GLP: yes

4-Methylanisole:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 79 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Pin-2(10)-ene:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 81 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Geranyl acetate:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 91 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

Stability in water : Degradation half life: 1.539 h (25 °C)
pH: 7
Method: OECD Test Guideline 111

Benzyl cinnamate:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

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Pentadecan-15-olide:

Biodegradability : Test Type: Manometric Respirometry Test
Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

α -Methyl-1,3-benzodioxole-5-propionaldehyde:

Biodegradability : Test Type: Manometric respiration test
Result: not readily biodegradable (only 10 day window failed)
Biodegradation: 65 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Benzyl salicylate:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 93 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

citral:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Phenylacetaldehyde:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 69 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

1-(3-methyl-1-benzofuran-2-yl)ethanone:

Biodegradability : Test Type: Closed Bottle test
Result: Not readily biodegradable.
Biodegradation: 4 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

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(E)-2-methoxy-4-(prop-1-enyl)phenol:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 79 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

isoeugenol:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 79 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

(2-Methoxymethylethoxy)propanol:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 96 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

12.3 Bioaccumulative potential

Components:

Benzyl acetate:

Partition coefficient: n-octanol/water : log Pow: 1,96 (25 °C)
pH: 7

3,7-Dimethyloctan-3-ol:

Partition coefficient: n-octanol/water : log Pow: 3,3 (20 °C)
Method: OECD Test Guideline 107
GLP: yes

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Partition coefficient: n-octanol/water : log Pow: 2,84 (25 °C)
Method: OECD Test Guideline 107
GLP: no

(Z)-3-Hexenyl salicylate:

Partition coefficient: n-octanol/water : log Pow: 4,8 (25 °C)
pH: 7
Method: OECD Test Guideline 117
GLP: yes

Phenethyl salicylate:

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Partition coefficient: n-octanol/water : log Pow: 4,8
Remarks: calculated

α-Hexylcinnamaldehyde:

Partition coefficient: n-octanol/water : log Pow: 5,3 (24 °C)
Method: OECD 117
GLP: yes

7-Hydroxycitronellal:

Partition coefficient: n-octanol/water : log Pow: 1,5
Method: OECD Test Guideline 107

4,4a,5,9b-Tetrahydroindeno[1,2-d]-1,3-dioxin:

Partition coefficient: n-octanol/water : log Pow: 1,76 (22,8 °C)
pH: 7,0
Method: OECD 117
GLP: yes

Methyl salicylate:

Partition coefficient: n-octanol/water : log Pow: 2,55

Isopentyl benzoate:

Partition coefficient: n-octanol/water : log Pow: 4,272 (25 °C)
pH: 6,51
Method: OECD 117
GLP: No information available.

3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers:

Partition coefficient: n-octanol/water : log Pow: 4,5 (24 °C)
pH: 7
Method: Tested according to Directive 92/69/EEC.

2-Benzylideneheptanal:

Partition coefficient: n-octanol/water : log Pow: 4,7

(Z)-Hex-3-enyl benzoate:

Partition coefficient: n-octanol/water : log Pow: 4,5 (25 °C)
Method: OECD 117
GLP: no

Linalyl acetate:

Partition coefficient: n-octanol/water : log Pow: 3,9 (25 °C)
Method: OECD Test Guideline 107
GLP: yes

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Eugenol:

Partition coefficient: n-octanol/water : log Pow: 1,83 (30 °C)
pH: 5,5
Method: OECD 117
GLP: no

Geraniol:

Partition coefficient: n-octanol/water : log Pow: 2,6 (25 °C)
Method: OECD 117
GLP: yes

Citronellol:

Partition coefficient: n-octanol/water : log Pow: 3,41 (25 °C)
GLP: no

Piperonal:

Partition coefficient: n-octanol/water : log Pow: 1,1

reaction mass of cis-and trans-cyclohexadec-8-en-1-one:

Bioaccumulation : Species: Danio rerio (zebra fish)
Exposure time: 174 h
Bioconcentration factor (BCF): 244
Method: OECD Test Guideline 305
GLP: yes

Partition coefficient: n-octanol/water : log Pow: ca. 5,82
Remarks: calculated

3-p-Cumenyl-2-methylpropionaldehyde:

Partition coefficient: n-octanol/water : log Pow: 3,4 (35 °C)
Method: OECD 117
GLP: yes

8-Cyclohexadecen-1-one:

Partition coefficient: n-octanol/water : log Pow: 6,5 (23 °C)
Method: OECD Test Guideline 117

Caryophyllene:

Partition coefficient: n-octanol/water : log Pow: 6,23 (25 °C)
pH: 7
Method: OECD Test Guideline 123
GLP: yes

4-Methylanisole:

Partition coefficient: n-octanol/water : log Pow: 2,8 (35 °C)
pH: 7
Method: OECD Test Guideline 117

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GLP: yes

Pin-2(10)-ene:

Partition coefficient: n-octanol/water : log Pow: 5,4 (35 °C)

Geranyl acetate:

Partition coefficient: n-octanol/water : log Pow: 4,04
Method: OECD 117
GLP: No information available.

Benzyl cinnamate:

Partition coefficient: n-octanol/water : log Pow: 4,18 (23,7 °C)
pH: 7
Method: OECD Test Guideline 117
GLP: yes

Pentadecan-15-olide:

Partition coefficient: n-octanol/water : log Pow: 5,79 (25 °C)
Method: OECD Test Guideline 123
GLP: yes

α -Methyl-1,3-benzodioxole-5-propionaldehyde:

Partition coefficient: n-octanol/water : log Pow: 2,4 (25 °C)
Method: OECD 117
GLP: yes

Benzyl salicylate:

Partition coefficient: n-octanol/water : log Pow: 4,0 (35 °C)
Method: OECD 117
GLP: yes

citral:

Partition coefficient: n-octanol/water : log Pow: 2,76 (25 °C)
Method: OECD Test Guideline 107
GLP: no

Phenylacetaldehyde:

Partition coefficient: n-octanol/water : log Pow: 1,44 (25 °C)
Method: OECD 117
GLP: yes

1-(3-methyl-1-benzofuran-2-yl)ethanone:

Partition coefficient: n-octanol/water : log Pow: 3,1 (40 °C)
Method: Directive 440/2008/EC, Annex , A.8.
GLP: yes

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(E)-2-methoxy-4-(prop-1-enyl)phenol:

Partition coefficient: n-octanol/water : log Pow: 2,1

isoeugenol:

Partition coefficient: n-octanol/water : log Pow: 2,55

(2-Methoxymethylethoxy)propanol:

Partition coefficient: n-octanol/water : log Pow: 1,01

12.4 Mobility in soil

Components:

α -Hexylcinnamaldehyde:

Distribution among environmental compartments : Adsorption/Soil
Medium: Soil
log Koc: 4,2
Method: OECD 121

Isopentyl benzoate:

Distribution among environmental compartments : Adsorption/Soil
Medium: Soil
log Koc: 2,876
Method: OECD 121

8-Cyclohexadecen-1-one:

Distribution among environmental compartments : Medium: Soil
log Koc: 4,13 - 4,37
Method: OECD Test Guideline 121

Medium: Sludge
log Koc: 4,37 - 4,67
Method: OECD Test Guideline 121

Geranyl acetate:

Distribution among environmental compartments : Koc: 1151, log Koc: 3,06
Remarks: calculated

Pentadecan-15-olide:

Distribution among environmental compartments : log Koc: 4,65
Method: OECD 121

α -Methyl-1,3-benzodioxole-5-propionaldehyde:

Distribution among environmental compartments : Adsorption/Soil
Koc: 71,3, log Koc: 1,85

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Method: OECD 121

Benzyl salicylate:

Distribution among environmental compartments : Adsorption/Soil
Medium: Soil
log Koc: 3,75
Method: OECD 121

1-(3-methyl-1-benzofuran-2-yl)ethanone:

Distribution among environmental compartments : log Koc: 2,16
Method: OECD 121

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

Methyl salicylate:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Pentadecan-15-olide:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

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Components:

Benzyl acetate:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

3,7-Dimethyloctan-3-ol:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

(Z)-3-Hexenyl salicylate:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

Phenethyl salicylate:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

7-Hydroxycitronellal:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Methyl salicylate:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

Isopentyl benzoate:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

Piperonal:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

reaction mass of cis-and trans-cyclohexadec-8-en-1-one:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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Very toxic to aquatic life with long lasting effects.

8-Cyclohexadecen-1-one:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

4-Methylanisole:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Pin-2(10)-ene:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

Geranyl acetate:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

Benzyl cinnamate:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.
Toxic to aquatic life with long lasting effects.

Pentadecan-15-olide:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

Benzyl salicylate:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

citral:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Phenylacetaldehyde:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

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1-(3-methyl-1-benzofuran-2-yl)ethanone:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

(E)-2-methoxy-4-(prop-1-enyl)phenol:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 3082
RID : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(3,7,11-TRIMETHYL-DODECATRIEN-3-OL, 1-(3-METHYL-2-BENZOFURANYL)-ETHANONE)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(3,7,11-TRIMETHYL-DODECATRIEN-3-OL, 1-(3-METHYL-2-BENZOFURANYL)-ETHANONE)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(3,7,11-TRIMETHYL-DODECATRIEN-3-OL, 1-(3-METHYL-2-BENZOFURANYL)-ETHANONE)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(3,7,11-TRIMETHYL-DODECATRIEN-3-OL, 1-(3-METHYL-2-

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BENZOFURANYL)-ETHANONE)

14.3 Transport hazard class(es)

ADR : 9
RID : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADR
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG
Packing group : III
Labels : 9
EmS Code : F-A, S-F

IATA (Cargo)
Packing instruction (cargo aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

IATA (Passenger)
Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

14.5 Environmental hazards

ADR
Environmentally hazardous : yes

RID
Environmentally hazardous : yes

IMDG
Marine pollutant : yes

IATA (Cargo)
Environmentally hazardous : yes

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14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Phenethyl acetate (Number on list 3)
Clove, ext. (Number on list 3)
Bicyclo[7.2.0]undec-4-ene, 4,11,11-trimethyl-8-methylene-, (1R,4E,9S)- (Number on list 3)
Benzyl salicylate (Number on list 3)
Phenylacetaldehyde (Number on list 3)
4-Methylanisole (Number on list 3)
Methyl benzoate (Number on list 3)
Benzyl acetate (Number on list 3)
Isopentyl benzoate (Number on list 3)
Hexyl acetate (Number on list 40, 3)
reaction mass of cis-and trans-cyclohexadec-8-en-1-one (Number on list 3)
benzaldehyde (Number on list 3)
(Z)-3-Hexenyl salicylate (Number on list 3)
8-Cyclohexadecen-1-one (Number on list 3)
(Z)-Hex-3-enyl benzoate (Number on list 3)
citral (Number on list 3)
Lemon, ext. (Number on list 40, 3)
(Z)-Hex-3-enyl acetate (Number on list 40, 3)
cis-Hex-3-en-1-ol (Number on list 40, 3)
3-Methyl-2-pent-2-enylcyclopent-2-enone (Number on list 3)
3,7-Dimethyloctan-3-ol (Number on list 3)
3-p-Cumenyl-2-methylpropionaldehyde (Number on

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list 3)
p-Menth-1-en-8-ol (Number on list 3)
Methyl salicylate (Number on list 3)
2-Phenylethanol (Number on list 3)
3,7,11-Trimethyldodeca-1,6,10-trien-3-ol,mixed isomers (Number on list 3)
Linalyl acetate (Number on list 3)
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (Number on list 3)
n-butyl acetate (Number on list 40, 3)
Pin-2(10)-ene (Number on list 40, 3)
 α -Hexylcinnamaldehyde (Number on list 3)
Mandarin orange, ext. (Number on list 40, 3)
Geranyl acetate (Number on list 3)
Citronellol (Number on list 3)
Ethyl salicylate (Number on list 3)
2-Benzylideneheptanal (Number on list 3)
 α,α -Dimethylphenethyl butyrate (Number on list 3)
Geraniol (Number on list 3)
 α -Methyl-1,3-benzodioxole-5-propionaldehyde (Number on list 3)
7-Hydroxycitronellal (Number on list 3)
Lime (Citrus aurantifolia), ext. (Number on list 40, 3)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E2	ENVIRONMENTAL HAZARDS	200 t	500 t

Water hazard class (Germany) : WGK 2 obviously hazardous to water
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:
Not applicable
Inorganic substances in powdered form:
Not applicable

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Inorganic substances in vapour or gaseous form:
Not applicable

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Organic Substances:
portion Class 1: 4,13 %

Carcinogenic substances:
Not applicable
Mutagenic:
Not applicable
Toxic to reproduction:
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 20,91 %

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H226 : Flammable liquid and vapour.
H302 : Harmful if swallowed.
H304 : May be fatal if swallowed and enters airways.
H312 : Harmful in contact with skin.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H332 : Harmful if inhaled.
H335 : May cause respiratory irritation.
H361 : Suspected of damaging fertility or the unborn child.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Asp. Tox. : Aspiration hazard
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Repr. : Reproductive toxicity
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation

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Skin Sens.	:	Skin sensitisation
STOT SE	:	Specific target organ toxicity - single exposure
91/322/EEC	:	Europe. Commission Directive 91/322/EEC on establishing indicative limit values
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
DFG	:	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).
EU SCOEL	:	EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL, as amended
91/322/EEC / TWA	:	Time weighted average
DE TRGS 900 / AGW	:	Exposure limit(s):
DFG / MAK	:	Maximum allowable concentration:
EU SCOEL / TWA	:	Time weighted average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Eye Irrit. 2	H319
Skin Sens. 1	H317

Classification procedure:

Calculation method
Calculation method

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Aquatic Chronic 2

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Calculation method

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This SDS is current to the date listed above. However, the GHS classifications may change due to hazard communication updates by the overseeing governing body. For the most current SDS information please contact customerservice@candlesupply.com.au