

Trade name: Duftstoff Tropical**Product no.:** 255999**Current version :** 2.0.0, issued: 03.02.2022**Replaced version:** 1.0.0, issued: 17.12.2021**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

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

Fragrances

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**

Koch-Chemie GmbH

Einsteinstr. 42

D-59423 Unna

Telephone no. +49-2303-9 86 70-0

Fax no. +49-2303-9 86 70-26

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

For information in the event of an emergency during transport:

+44 1865 407333

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 2; H411

Skin Irrit. 2; H315

Skin Sens. 1; H317

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS07



GHS09

Signal word

Warning

Hazardous component(s) to be indicated on label:

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Orange, sweet, ext.
 (2E)-2-(phenylmethylidene)octanal
 Coumarin
 ethyl 2,3-epoxy-3-phenylbutyrate
 pentadecan-15-olide
 Heptanal, 2-(phenylmethylene)-, (2E)-
 Reaction Mass of Cis-4-(isopropyl) cyclohexanemethanol and Trans-4-(isopropyl) cyclohexanemethanol
 dodecanal
 2-methylundecanal
 cineol
 2,6-dimethylhept-5-enal
 Citronellol
 geraniol

Hazard statement(s)

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P391 Collect spillage.

2.3 Other hazards

PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	cis-2-tert-butylcyclohexyl acetate		
	20298-69-5 243-718-1 - 01-2119970713-33	Aquatic Chronic 2; H411	>= 5.00 - < 10.00 wt%
2	benzyl-salicylate		
	118-58-1 204-262-9 - 01-2119969442-31	Aquatic Chronic 3; H412 Skin Sens. 1B; H317 Eye Irrit. 2; H319	< 5.00 wt%
3	Orange, sweet, ext.		
	8028-48-6 232-433-8	Asp. Tox. 1; H304 Flam. Liq. 3; H226	< 5.00 wt%

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	- 01-2119493353-35	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 1; H410 Aquatic Acute 1; H400		
4	3-p-cumenyl-2-methylpropionaldehyde			
	103-95-7 203-161-7 - 01-2119970582-32	Aquatic Chronic 3; H412 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 5.00	wt%
5	alpha,alpha-dimethylphenethyl acetate			
	151-05-3 205-781-3 - 01-2120258394-51	Aquatic Chronic 3; H412 Skin Irrit. 2; H315	< 5.00	wt%
6	3,7-dimethyloctan-3-ol			
	78-69-3 201-133-9 - 01-2119454788-21	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	< 5.00	wt%
7	undecan-4-olide			
	104-67-6 203-225-4 - 01-2119959333-34	Aquatic Chronic 3; H412	< 5.00	wt%
8	4-tert-butylcyclohexyl acetate			
	32210-23-4 250-954-9 - 01-2119976286-24	Skin Sens. 1B; H317	< 5.00	wt%
9	3-methyl-5-phenylpentanol			
	55066-48-3 259-461-3 - 01-2119969446-23	Acute Tox. 4; H302 STOT RE 2; H373o	< 5.00	wt%
10	(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one			
	79-77-6 201-224-3 - 01-2119449921-34	Aquatic Chronic 2; H411	< 2.50	wt%
11	allyl 3-cyclohexylpropionate			
	2705-87-5 220-292-5 - 01-2119976355-27	Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 2.50	wt%
12	(2E)-2-(phenylmethylidene)octanal			
	165184-98-5 639-566-4 - 01-2119533092-50	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Skin Sens. 1; H317	< 2.50	wt%
13	hexyl-salicylate			
	6259-76-3 228-408-6 - 01-2119638275-36	Skin Sens. 1B; H317 Aquatic Chronic 1; H410	< 2.50	wt%
14	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-			

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	tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		
	- 915-730-3 - 01-2119489989-04	Aquatic Chronic 1; H410 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 2.50 wt%
15	Coumarin		
	91-64-5 202-086-7 - 01-2119949300-45	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Chronic 3; H412	< 2.50 wt%
16	ethyl 2,3-epoxy-3-phenylbutyrate		
	77-83-8 201-061-8 - 01-2119967770-28	Aquatic Chronic 2; H411 Skin Sens. 1B; H317	< 2.50 wt%
17	pentadecan-15-olide		
	106-02-5 203-354-6 - 01-2119987323-31	Aquatic Chronic 2; H411 Skin Sens. 1B; H317	< 2.50 wt%
18	Heptanal, 2-(phenylmethylene)-, (2E)-		
	78605-96-6 800-696-3 - 01-2119978288-18	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	< 0.50 wt%
19	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran		
	16409-43-1 240-457-5 - 01-2119976300-42	Skin Irrit. 2; H315 Repr. 2; H361f Eye Irrit. 2; H319	< 0.50 wt%
20	Reaction Mass of Cis-4-(isopropyl) cyclohexanemethanol and Trans-4-(isopropyl) cyclohexanemethanol		
	5502-75-0 - - 01-2119983532-32	Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 0.50 wt%
21	dodecanal		
	112-54-9 203-983-6 - 01-2119969441-33	Skin Sens. 1B; H317 Skin Irrit. 2; H315 Eye Irrit. 2; H319	< 0.50 wt%
22	2-methylundecanal		
	110-41-8 203-765-0 - 01-2119969443-29	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 0.50 wt%
23	cineol		
	470-82-6 207-431-5 - 01-2119967772-24	Flam. Liq. 3; H226 Skin Sens. 1B; H317	< 0.50 wt%
24	2,6-dimethylhept-5-enal		
	106-72-9 203-427-2 - 01-2120270305-62	Skin Sens. 1B; H317	< 0.50 wt%
25	Citronellol		

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	106-22-9 203-375-0 - 01-2119453995-23	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 0.50	wt%
26	(Z)-3-hexenyl salicylate			
	65405-77-8 265-745-8 - 01-2119987320-37	Aquatic Acute 1; H400	< 0.50	wt%
27	geraniol			
	106-24-1 203-377-1 - 01-2119552430-49	Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 0.50	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
22	-	-	M = 1	M = 1

No	Route, target organ, concrete effect
9	H373 -; liver; -

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
11		1600 mg/kg bodyweight	

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of allergic symptoms, especially respiratory tract related, seek medical help immediately.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Do not use mouth-to-mouth or mouth-to-nose resuscitation.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Dry chemical extinguisher; Water spray jet; Foam; Carbon dioxide; Dry chemical extinguisher

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Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit. Run-off water from fire fighting must not be discharged into drains or enter surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Have emergency shower available. Provide eye wash fountain in work area.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	benzyl-salicylate			118-58-1 204-262-9	
	dermal	Long term (chronic)	systemic	0.9	mg/kg/day
	inhalative	Long term (chronic)	systemic	3.17	mg/m ³
2	Orange, sweet, ext.			8028-48-6 232-433-8	
	dermal	Long term (chronic)		8.89	mg/kg/day
	dermal	Short term (acut)		185.8	µg/cm ²
	inhalative			31.1	mg/m ³
3	3-p-cumenyl-2-methylpropionaldehyde			103-95-7 203-161-7	
	dermal	Long term (chronic)	systemic	1.67	mg/kg/day
	dermal	Long term (chronic)	local	7.43	µg/cm ²
	inhalative	Short term (acut)	systemic	5.83	mg/m ³
4	alpha,alpha-dimethylphenethyl acetate			151-05-3 205-781-3	
	dermal	Long term (chronic)	systemic	8.33	mg/kg/day
	inhalative	Long term (chronic)	systemic	4.4	mg/m ³
5	3,7-dimethyloctan-3-ol			78-69-3 201-133-9	
	dermal	Long term (chronic)	systemic	3.16	mg/kg/day
	dermal	Long term (chronic)	local	190	µg/cm ²
	inhalative	Long term (chronic)	systemic	11.4	mg/m ³
6	undecan-4-olide			104-67-6 203-225-4	
	dermal	Long term (chronic)	systemic	5.38	mg/kg/day
	inhalative	Long term (chronic)	systemic	19	mg/m ³
7	3-methyl-5-phenylpentanol			55066-48-3 259-461-3	
	dermal	Long term (chronic)	systemic	0.5	mg/kg/day
	dermal	Short term (acut)	systemic	3	mg/kg/day
	dermal	Long term (chronic)	local	0.13	mg/cm ²
	inhalative	Long term (chronic)	systemic	0.88	mg/m ³
	inhalative	Short term (acut)	systemic	5.3	mg/m ³
8	(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one			79-77-6 201-224-3	
	dermal	Long term (chronic)	systemic	6	mg/kg/day
	inhalative	Long term (chronic)	systemic	12.7	mg/m ³
9	allyl 3-cyclohexylpropionate			2705-87-5 220-292-5	
	dermal	Long term (chronic)	systemic	4.3	mg/kg/day
	inhalative	Long term (chronic)	systemic	15	mg/m ³
10	(2E)-2-(phenylmethylidene)octanal			165184-98-5 639-566-4	
	dermal	Long term (chronic)	systemic	18.2	mg/kg/day
	dermal	Long term (chronic)	local	525	µg/cm ²
	dermal	Short term (acut)	local	525	µg/cm ²
	inhalative	Long term (chronic)	systemic	0.078	mg/m ³
	inhalative	Short term (acut)	local	6.28	mg/m ³
11	hexyl-salicylate			6259-76-3 228-408-6	
	dermal	Long term (chronic)	systemic	20830	mg/kg/day

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	dermal	Short term (acut)	systemic	1475	µg/cm ²
	inhalative	Long term (chronic)	systemic	7.29	mg/m ³
	inhalative	Short term (acut)	systemic	7.29	mg/m ³
12	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			- 915-730-3	
	dermal	Long term (chronic)	systemic	28.7	mg/kg/day
	dermal	Long term (chronic)	local	648	µg/cm ²
	inhalative	Long term (chronic)	systemic	30	mg/m ³
13	Coumarin			91-64-5 202-086-7	
	dermal	Long term (chronic)	systemic	0.84	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.741	mg/m ³
14	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran			16409-43-1 240-457-5	
	dermal	Long term (chronic)	systemic	0.3	mg/kg/day
	inhalative	Long term (chronic)	systemic	1.2	mg/m ³
15	2-methylundecanal			110-41-8 203-765-0	
	dermal	Long term (chronic)	systemic	10.46	mg/kg/day
	dermal	Short term (acut)	systemic	100	mg/kg/day
	dermal	Long term (chronic)	local	35.7	mg/cm ²
	dermal	Short term (acut)	local	71.43	mg/cm ²
	inhalative	Long term (chronic)	systemic	36.89	mg/m ³
	inhalative	Short term (acut)	systemic	352.63	mg/m ³
	inhalative	Long term (chronic)	local	92.21	mg/m ³
	inhalative	Short term (acut)	local	881.58	mg/m ³
16	(Z)-3-hexenyl salicylate			65405-77-8 265-745-8	
	dermal	Long term (chronic)	systemic	0.9	mg/kg/day
	inhalative	Long term (chronic)	systemic	1.59	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	benzyl-salicylate			118-58-1 204-262-9	
	oral	Long term (chronic)	systemic	0.45	mg/kg/day
	dermal	Long term (chronic)	systemic	0.45	mg/kg/day
	inhalative	Long term (chronic)	systemic	0.78	mg/m ³
2	Orange, sweet, ext.			8028-48-6 232-433-8	
	oral	Long term (chronic)		4.44	mg/kg/day
	dermal	Long term (chronic)		4.44	mg/kg/day
	dermal	Short term (acut)		92.9	µg/cm ²
	inhalative	Long term (chronic)		7.78	mg/m ³
3	3-p-cumenyl-2-methylpropionaldehyde			103-95-7 203-161-7	
	oral	Long term (chronic)	systemic	0.83	mg/kg/day
	dermal	Long term (chronic)	systemic	0.83	mg/kg/day
	dermal	Long term (chronic)	local	3.72	µg/cm ²
	inhalative	Long term (chronic)	systemic	1.45	mg/m ³
4	alpha,alpha-dimethylphenethyl acetate			151-05-3 205-781-3	
	oral	Long term (chronic)	systemic	4.17	mg/kg/day
	dermal	Long term (chronic)	systemic	4.17	mg/kg/day
	inhalative	Long term (chronic)	systemic	2.2	mg/m ³

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5	3,7-dimethyloctan-3-ol			78-69-3 201-133-9
	oral	Long term (chronic)	systemic	1.58 mg/kg/day
	dermal	Long term (chronic)	systemic	1.58 mg/kg/day
	dermal	Long term (chronic)	local	190 µg/cm ²
	inhalative	Long term (chronic)	systemic	2.75 mg/m ³
6	undecan-4-olide			104-67-6 203-225-4
	oral	Long term (chronic)	systemic	2.7 mg/kg/day
	dermal	Long term (chronic)	systemic	2.7 mg/kg/day
	inhalative	Long term (chronic)	systemic	4.68 mg/m ³
7	3-methyl-5-phenylpentanol			55066-48-3 259-461-3
	oral	Long term (chronic)	systemic	0.06 mg/kg/day
	oral	Short term (acut)	systemic	0.375 mg/kg/day
	dermal	Long term (chronic)	systemic	0.25 mg/kg/day
	dermal	Short term (acut)	systemic	0.5 mg/kg/day
	dermal	Long term (chronic)	local	0.065 mg/cm ²
	dermal	Short term (acut)	local	0.39 mg/cm ²
	inhalative	Long term (chronic)	systemic	0.21 mg/m ³
	inhalative	Short term (acut)	systemic	1.3 mg/m ³
8	(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one			79-77-6 201-224-3
	oral	Long term (chronic)	systemic	1.8 mg/kg/day
	dermal	Long term (chronic)	systemic	3.6 mg/kg/day
	inhalative	Long term (chronic)	systemic	3.1 mg/m ³
9	allyl 3-cyclohexylpropionate			2705-87-5 220-292-5
	oral	Long term (chronic)	systemic	2.1 mg/kg/day
	dermal	Long term (chronic)	systemic	2.1 mg/kg/day
	inhalative	Long term (chronic)	systemic	3.7 mg/m ³
10	(2E)-2-(phenylmethylidene)octanal			165184-98-5 639-566-4
	oral	Long term (chronic)	systemic	0.056 mg/kg/day
	dermal	Long term (chronic)	systemic	9.11 mg/kg/day
	dermal	Long term (chronic)	local	78.7 µg/cm ²
	dermal	Short term (acut)	local	78.7 µg/cm ²
	inhalative	Long term (chronic)	systemic	0.019 mg/m ³
	inhalative	Short term (acut)	local	4.71 mg/m ³
11	hexyl-salicylate			6259-76-3 228-408-6
	oral	Long term (chronic)	systemic	0.625 mg/kg/day
	oral	Short term (acut)	systemic	1.25 mg/kg/day
	dermal	Long term (chronic)	systemic	12500 mg/kg/day
	dermal	Short term (acut)	systemic	12500 mg/kg/day
	dermal	Short term (acut)	local	885 µg/cm ²
	inhalative	Long term (chronic)	systemic	2.19 mg/m ³
	inhalative	Short term (acut)	systemic	2.19 mg/m ³
12	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			- 915-730-3
	oral	Long term (chronic)	systemic	3 mg/kg/day
	dermal	Long term (chronic)	systemic	17.2 mg/kg/day
	dermal	Long term (chronic)	local	380 µg/cm ²
	inhalative	Long term (chronic)	systemic	9 mg/m ³
13	Coumarin			91-64-5

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				202-086-7
	oral	Long term (chronic)	systemic	0.42 mg/kg/day
	dermal	Long term (chronic)	systemic	0.42 mg/kg/day
	inhalative	Long term (chronic)	systemic	0.183 mg/m ³
14	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran			16409-43-1 240-457-5
	oral	Long term (chronic)	systemic	0.2 mg/kg/day
	dermal	Long term (chronic)	systemic	0.2 mg/kg/day
	inhalative	Long term (chronic)	systemic	0.3 mg/m ³
15	2-methylundecanal			110-41-8 203-765-0
	oral	Long term (chronic)	systemic	5.23 mg/kg/day
	oral	Short term (acut)	systemic	25 mg/kg/day
	dermal	Long term (chronic)	systemic	5.23 mg/kg/day
	dermal	Short term (acut)	systemic	50 mg/kg/day
	dermal	Long term (chronic)	local	17.86 mg/cm ²
	dermal	Short term (acut)	local	35.71 mg/cm ²
	inhalative	Long term (chronic)	systemic	9.1 mg/m ³
	inhalative	Short term (acut)	systemic	86.96 mg/m ³
	inhalative	Long term (chronic)	local	22.74 mg/m ³
	inhalative	Short term (acut)	local	217.39 mg/m ³
16	(Z)-3-hexenyl salicylate			65405-77-8 265-745-8
	oral	Long term (chronic)	systemic	0.23 mg/kg/day
	dermal	Long term (chronic)	systemic	0.45 mg/kg/day
	inhalative	Long term (chronic)	systemic	0.39 mg/m ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	cis-2-tert-butylcyclohexyl acetate		20298-69-5 243-718-1
	water	fresh water	0.011 mg/L
	water	marine water	0.001 mg/L
	water	fresh water sediment	1.5 mg/kg dry weight
	water	marine water sediment	0.15 mg/kg dry weight
	soil	-	0.293 mg/kg dry weight
	sewage treatment plant	-	10 mg/L
2	benzyl-salicylate		118-58-1 204-262-9
	water	fresh water	0.001 mg/L
	water	marine water	0 mg/L
	water	Aqua intermittent	0.01 mg/L
	water	fresh water sediment	0.583 mg/kg dry weight
	water	marine water sediment	0.058 mg/kg dry weight
	soil	-	1.41 mg/kg dry weight
	sewage treatment plant	-	10 mg/L
	secondary poisoning	-	80 mg/kg food
3	Orange, sweet, ext.		8028-48-6 232-433-8
	water	fresh water	5.4 mg/L
	water	marine water	0.54 mg/L

Trade name: Duftstoff Tropical

Product no.: 255999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 17.12.2021

Region: GB

	water	fresh water sediment	1.3	mg/kg dry weight
	water	marine water sediment	0.13	mg/kg dry weight
	water	Aqua intermittent	5.77	mg/L
	soil	-	0.261	mg/kg dry weight
	sewage treatment plant	-	2.1	mg/L
	secondary poisoning	-	13.3	mg/kg
	with reference to: food			
4	3-p-cumenyl-2-methylpropionaldehyde		103-95-7 203-161-7	
	water	fresh water	1.09	µg/L
	water	marine water	0.11	µg/L
	water	fresh water sediment	0.126	mg/kg dry weight
	water	marine water sediment	0.013	mg/kg dry weight
	soil	-	0.025	mg/kg dry weight
	sewage treatment plant	-	1	mg/L
5	alpha,alpha-dimethylphenethyl acetate		151-05-3 205-781-3	
	water	fresh water	4.766	µg/L
	water	fresh water sediment	0.189	mg/kg dry weight
	sewage treatment plant	-	31.25	mg/L
6	3,7-dimethyloctan-3-ol		78-69-3 201-133-9	
	water	fresh water	0.009	mg/L
	water	marine water	0.001	mg/L
	water	Aqua intermittent	0.089	mg/L
	water	marine water sediment	0.008	mg/kg dry weight
	water	fresh water sediment	0.082	mg/kg dry weight
	soil	-	0.011	mg/kg dry weight
	sewage treatment plant	-	450	mg/L
7	undecan-4-olide		104-67-6 203-225-4	
	water	fresh water	5.85	µg/L
	water	marine water	0.585	µg/L
	water	Aqua intermittent	0.0585	mg/L
	water	fresh water sediment	0.628	mg/kg dry weight
	water	marine water sediment	0.0628	mg/kg dry weight
	soil	-	0.122	mg/kg dry weight
	sewage treatment plant	-	80	mg/L
	secondary poisoning	-	66.7	mg/kg food
8	4-tert-butylcyclohexyl acetate		32210-23-4 250-954-9	
	water	fresh water	5.3	µg/L
	water	Aqua intermittent	53	µg/L
	water	marine water	0.53	µg/L

Trade name: Duftstoff Tropical

Product no.: 255999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 17.12.2021

Region: GB

	water	fresh water sediment	2.01	mg/kg dry weight
	water	marine water sediment	0.21	mg/kg dry weight
	soil	-	0.42	mg/kg dry weight
	sewage treatment plant	-	12.2	mg/L
	secondary poisoning	-	66.67	mg/kg food
9	3-methyl-5-phenylpentanol		55066-48-3 259-461-3	
	water	fresh water	0.013	mg/L
	water	marine water	0.001	mg/L
	water	fresh water sediment	1.034	mg/kg dry weight
	water	marine water sediment	0.103	mg/kg dry weight
	soil	-	0.199	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	10	mg/kg food
10	(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one		79-77-6 201-224-3	
	water	fresh water	0.004	mg/L
	water	marine water	0	mg/L
	water	fresh water sediment	0.151	mg/kg dry weight
	water	marine water sediment	0.015	mg/kg dry weight
	soil	-	0.051	mg/kg dry weight
	sewage treatment plant	-	1	mg/L
11	allyl 3-cyclohexylpropionate		2705-87-5 220-292-5	
	water	fresh water	0.13	µg/L
	water	marine water	0.013	µg/L
	water	fresh water sediment	24,13	µg/kg
	water	marine water sediment	2413	µg/kg
	soil	-	4.75	µg/kg
	sewage treatment plant	-	0.2	mg/L
	secondary poisoning	-	143	mg/kg food
12	(2E)-2-(phenylmethylidene)octanal		165184-98-5 639-566-4	
	water	fresh water	0.001	mg/L
	water	marine water	0	mg/L
	water	fresh water sediment	3.2	mg/kg dry weight
	water	marine water sediment	0.064	mg/kg dry weight
	soil	-	0.398	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	6.6	mg/kg food
13	hexyl-salicylate		6259-76-3 228-408-6	
	water	fresh water	0	mg/L
	water	marine water	0	mg/L
	water	Aqua intermittent	0.004	mg/L

Trade name: Duftstoff Tropical

Product no.: 255999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 17.12.2021

Region: GB

	water	fresh water sediment	0.272	mg/kg dry weight
	water	marine water sediment	0.027	mg/kg dry weight
	soil	-	0.054	mg/kg
	sewage treatment plant	-	10	mg/L
14	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		- 915-730-3	
	water	fresh water	2.8	µg/L
	water	marine water	0.28	µg/L
	water	Aqua intermittent	13	µg/L
	water	fresh water sediment	3.73	µg/L
	water	marine water sediment	0.75	µg/L
	soil	-	2.7	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	10	mg/kg
	with reference to: food			
15	Coumarin		91-64-5 202-086-7	
	water	fresh water	0.0056	mg/L
	water	marine water	0.00056	mg/L
	water	Aqua intermittent	0.056	mg/L
	water	fresh water sediment	0.207	mg/kg dry weight
	water	marine water sediment	0.0207	mg/kg dry weight
	soil	-	0.0217	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
16	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran		16409-43-1 240-457-5	
	water	fresh water	33.2	µg/L
	water	marine water	3.32	µg/L
	water	fresh water sediment	2.29	mg/kg dry weight
	water	marine water sediment	0.229	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
17	2-methylundecanal		110-41-8 203-765-0	
	water	fresh water	0.66	µg/L
	water	marine water	66	ng/L
	water	fresh water sediment	0.265	mg/kg dry weight
	water	marine water sediment	26.5	µg/kg dry weight
	soil	-	52.6	µg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	313	mg/kg food
18	(Z)-3-hexenyl salicylate		65405-77-8 265-745-8	
	water	fresh water	0.61	µg/L
	water	marine water	0.061	µg/L

Trade name: Duftstoff Tropical**Product no.:** 255999**Current version :** 2.0.0, issued: 03.02.2022**Replaced version:** 1.0.0, issued: 17.12.2021**Region:** GB

water	fresh water sediment	0.11	mg/kg dry weight
water	marine water sediment	0.011	mg/kg dry weight
soil	-	0.022	mg/kg dry weight
sewage treatment plant	-	10	mg/L
secondary poisoning	-	40	mg/kg food

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation	
liquid	
Form/Colour	
liquid	
coloured	
Odour	
characteristic	
pH value	
No data available	
Boiling point / boiling range	
Value	> 200 °C
Melting point/freezing point	
No data available	
Decomposition temperature	
No data available	

Trade name: Duftstoff Tropical

Product no.: 255999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 17.12.2021

Region: GB

Flash point			
Value	93	°C	
Ignition temperature			
No data available			
Flammability			
No data available			
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure			
Value	300	hPa	
Reference temperature	50	°C	
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	0.9	g/cm ³	
Reference temperature	20	°C	
Solubility in water			
Value	appr. 35	%	
Reference temperature	20	°C	
Solubility			
Comments	soluble in most of organic solvents		
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	cis-2-tert-butylcyclohexyl acetate	20298-69-5	243-718-1
log Pow	4.7	- 4.8	
Reference temperature		25	°C
Method	OECD 117		
Source	ECHA		
2	benzyl-salicylate	118-58-1	204-262-9
log Pow		4.0	
Reference temperature		35	°C
Method	OECD 117		
Source	ECHA		
3	Orange, sweet, ext.	8028-48-6	232-433-8
log Pow	>=	4	
4	alpha,alpha-dimethylphenethyl acetate	151-05-3	205-781-3
log Pow	appr.	3.64	
Reference temperature		25	°C
Source	ECHA		
5	3,7-dimethyloctan-3-ol	78-69-3	201-133-9
log Pow		3.3	
Reference temperature		20	°C
Method	OECD 107		
Source	ECHA		
6	undecan-4-olide	104-67-6	203-225-4
log Pow		3.6	
Reference temperature		25	°C

Trade name: Duftstoff Tropical

Product no.: 255999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 17.12.2021

Region: GB

Method	OECD 117		
Source	ECHA		
7	3-methyl-5-phenylpentanol	55066-48-3	259-461-3
log Pow		2.7	
Reference temperature		30	°C
Method	ECHA		
Source			
8	(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	79-77-6	201-224-3
log Pow		4	
Reference temperature		25	°C
Method	EEC 79/831		
Source	ECHA		
9	allyl 3-cyclohexylpropionate	2705-87-5	220-292-5
log Pow		4.276	
Reference temperature		20	°C
Method	OECD 107		
Source	ECHA		
10	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
log Pow	appr.	5.3	
Reference temperature		24	°C
Method	OECD 117		
Source	ECHA		
11	hexyl-salicylate	6259-76-3	228-408-6
log Pow		5.5	
Method	OECD 117		
Source	ECHA		
12	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
log Pow	5.6	- 5.7	
Reference temperature		30	°C
Method	OECD 117		
Source	ECHA		
13	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	16409-43-1	240-457-5
log Pow		3.3	
Reference temperature		23	°C
Method	OECD 117		
Source	ECHA		
14	2-methylundecanal	110-41-8	203-765-0
log Pow		4.9	
Reference temperature		35	°C
Source	ECHA		
15	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
log Pow		4.8	
Reference temperature		25	°C
Method	OECD 117		
Source	ECHA		

Viscosity

No data available

Particle characteristics

No data available

9.2 Other information**Other information**

Trade name: Duftstoff Tropical

Product no.: 255999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 17.12.2021

Region: GB

No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

None known

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Duftstoff Tropical
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	cis-2-tert-butylcyclohexyl acetate	20298-69-5	243-718-1
LD50		4600	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
2	Orange, sweet, ext.	8028-48-6	232-433-8
LD50	>	5000	mg/kg bodyweight
Species	rat		
3	3,7-dimethyloctan-3-ol	78-69-3	201-133-9
LD50		8270	mg/kg bodyweight
Species	rat		
Source	ECHA		
4	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
LD50	appr.	3100	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
5	hexyl-salicylate	6259-76-3	228-408-6
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
6	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-	-	915-730-3

Trade name: Duftstoff Tropical

Product no.: 255999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 17.12.2021

Region: GB

2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
7	2-methylundecanal	110-41-8	203-765-0
LD50	>	5000	mg/kg bodyweight
Species	rat		
Source	ECHA		
8	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
LD50	>	3031	mg/kg bodyweight
Species	rat		
Method	EU Method B.1		
Source	ECHA		

Acute dermal toxicity (result of the ATE calculation for the mixture)

No	Product Name
1	Duftstoff Tropical
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

Acute dermal toxicity

No	Substance name	CAS no.	EC no.
1	cis-2-tert-butylcyclohexyl acetate	20298-69-5	243-718-1
LD50	>	5000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
2	Orange, sweet, ext.	8028-48-6	232-433-8
LD50	>	5000	mg/kg bodyweight
Species	rabbit		
3	3,7-dimethyloctan-3-ol	78-69-3	201-133-9
LD50	>	5000	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
4	undecan-4-olide	104-67-6	203-225-4
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
5	allyl 3-cyclohexylpropionate	2705-87-5	220-292-5
LD50	>	1600	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
6	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
LD50	>	3000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
7	hexyl-salicylate	6259-76-3	228-408-6
LD50	>	5000	mg/kg bodyweight
Species	rabbit		

Trade name: Duftstoff Tropical

Product no.: 255999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 17.12.2021

Region: GB

Method	OECD 402
Source	ECHA
8	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - 915-730-3
LD50	> 5000 mg/kg bodyweight
Species	rat
Method	OECD 402
Source	ECHA
9	2-methylundecanal 110-41-8 203-765-0
LD50	> 10000 mg/kg bodyweight
Species	rabbit
Source	ECHA
10	(Z)-3-hexenyl salicylate 65405-77-8 265-745-8
LD50	> 2000 mg/kg bodyweight
Species	rabbit
Method	EU Method B.3
Source	ECHA

Acute inhalational toxicity (result of the ATE calculation for the mixture)

No	Product Name
1	Duftstoff Tropical
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

Acute inhalational toxicity

No	Substance name	CAS no.	EC no.
1	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
LC50	>	5	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 403		
Source	ECHA		

Skin corrosion/irritation

No	Substance name	CAS no.	EC no.
1	cis-2-tert-butylcyclohexyl acetate	20298-69-5	243-718-1
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	3,7-dimethyloctan-3-ol	78-69-3	201-133-9
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
3	(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	79-77-6	201-224-3
Species	rat		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		

Trade name: Duftstoff Tropical

Product no.: 255999

Current version : 2.0.0, issued: 03.02.2022

Replaced version: 1.0.0, issued: 17.12.2021

Region: GB

4	allyl 3-cyclohexylpropionate	2705-87-5	220-292-5
Method	OECD 439		
Source	ECHA		
Evaluation	non-irritant		
5	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
Species	rabbit		
Method	EU B.4		
Source	ECHA		
Evaluation	non-irritant		
6	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
Method	OECD 439		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
7	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	16409-43-1	240-457-5
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
8	2-methylundecanal	110-41-8	203-765-0
Species	rabbit		
Source	ECHA		
Evaluation	irritant		

Serious eye damage/irritation

No	Substance name	CAS no.	EC no.
1	cis-2-tert-butylcyclohexyl acetate	20298-69-5	243-718-1
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	benzyl-salicylate	118-58-1	204-262-9
Species	rabbit		
Method	OECD 437		
Source	ECHA		
Evaluation	irritant		
3	Orange, sweet, ext.	8028-48-6	232-433-8
Species	rabbit		
Method	OECD 405		
Evaluation	non-irritant		
4	3,7-dimethyloctan-3-ol	78-69-3	201-133-9
Source	ECHA		
Evaluation	Irritating to eyes		
Evaluation/classification	Based on available data, the classification criteria are met.		
5	undecan-4-olide	104-67-6	203-225-4
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
6	(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	79-77-6	201-224-3
Species	rabbit		
Method	OECD 405		
Source	ECHA		

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Evaluation	non-irritant		
7	allyl 3-cyclohexylpropionate	2705-87-5	220-292-5
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
8	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
Species	rabbit		
Method	EU B.5		
Source	ECHA		
Evaluation	non-irritant		
9	hexyl-salicylate	6259-76-3	228-408-6
Duration of exposure	4		h
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
10	2-methylundecanal	110-41-8	203-765-0
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		
11	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
Species	rabbit		
Method	EU B.5		
Source	ECHA		
Evaluation	non-irritant		

Respiratory or skin sensitisation

No	Substance name	CAS no.	EC no.
1	benzyl-salicylate	118-58-1	204-262-9
Route of exposure		Skin	
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	sensitizing		
2	3,7-dimethyloctan-3-ol	78-69-3	201-133-9
Route of exposure		Skin	
Method	OECD 429		
Source	ECHA		
Evaluation	sensitizing		
Evaluation/classification	Based on available data, the classification criteria are met.		
3	4-tert-butylcyclohexyl acetate	32210-23-4	250-954-9
Route of exposure		Skin	
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	sensitizing		
4	allyl 3-cyclohexylpropionate	2705-87-5	220-292-5
Route of exposure		Skin	
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	sensitizing		
5	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
Route of exposure		Skin	
Species	mouse		
Method	OECD 429		
Source	ECHA		

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Evaluation	sensitizing		
6	hexyl-salicylate	6259-76-3	228-408-6
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	sensitizing		
7	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	sensitizing		
Evaluation/classification	Based on available data, the classification criteria are met.		
8	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	16409-43-1	240-457-5
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
9	2-methylundecanal	110-41-8	203-765-0
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	sensitizing		
10	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity

No	Substance name	CAS no.	EC no.
1	3,7-dimethyloctan-3-ol	78-69-3	201-133-9
Type of examination	in vitro gene mutation study in bacteria		
Species	S. typhimurium: TA97, TA98, TA 100, TA 102, TA 1535		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	In vitro Mammalian Chromosomal Aberration Test		
Species	Chinese hamster V79 cells		
Method	OECD 473		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	In vitro mammalian cell gene mutation test		
Species	Chinese hamster V79 cells		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	undecan-4-olide	104-67-6	203-225-4
Species	mouse		
Method	OECD 474		

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Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
3	(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one 79-77-6 201-224-3
Method	OECD 474
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
4	allyl 3-cyclohexylpropionate 2705-87-5 220-292-5
Method	OECD 487
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
5	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - 915-730-3
Type of examination	In vitro Mammalian Chromosomal Aberration Test
Species	Human Lymphocyte
Method	OECD 473
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Type of examination	in vitro gene mutation study in mammalian cells
Species	Mouse lymphoma cells
Method	OECD 476
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Type of examination	in vitro gene mutation study in bacteria
Species	Salmonella typhimurium / Escherichia coli
Method	OECD 471
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
6	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran 16409-43-1 240-457-5
Species	S. typhimurium: TA97, TA98, TA 100, TA 102, TA 1535
Method	OECD 471
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
7	(Z)-3-hexenyl salicylate 65405-77-8 265-745-8
Method	OECD 476
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Reproduction toxicity	
No	Substance name CAS no. EC no.
1	(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one 79-77-6 201-224-3
Method	OECD 414
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
2	allyl 3-cyclohexylpropionate 2705-87-5 220-292-5
Method	OECD 415
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
3	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - 915-730-3

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Type of examination	Prenatal Developmental Toxicity Study		
Species	rat		
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	Toxicity study		
Species	rat		
Method	OECD 443		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	16409-43-1	240-457-5
Species	rat		
Method	OECD 407		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		
5	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
Method	OECD 415		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No	Substance name	CAS no.	EC no.
1	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
Route of exposure		oral	
Method		OECD 408	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		dermal	
Method		OECD 411	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	16409-43-1	240-457-5
Route of exposure		oral	
Species		rat	
Method		OECD 407	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Aspiration hazard

No data available

11.2 Information on other hazards**Endocrine disrupting properties**

No data available.

Other information

No data available.

SECTION 12: Ecological information

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12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	cis-2-tert-butylcyclohexyl acetate	20298-69-5	243-718-1
LC50		5.6	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	EU C.1		
Source	ECHA		
2	benzyl-salicylate	118-58-1	204-262-9
LC50		1.03	mg/l
Duration of exposure		96	h
Species	Brachydanio rerio		
Method	440/2008/EC C.1.		
Source	ECHA		
3	Orange, sweet, ext.	8028-48-6	232-433-8
LC50		0.7	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
4	3,7-dimethyloctan-3-ol	78-69-3	201-133-9
LC50		8.9	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		
5	(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	79-77-6	201-224-3
LC50		4.71	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	EPA		
Source	ECHA		
6	allyl 3-cyclohexylpropionate	2705-87-5	220-292-5
LC50		0.13	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
7	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
LC50		1.7	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
8	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
LC50		1.3	mg/l
Duration of exposure		96	h
Species	Lepomis macrochirus		
Method	OECD 203		
Source	ECHA		
9	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	16409-43-1	240-457-5

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LC50		77.6	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		
10	2-methylundecanal	110-41-8	203-765-0
LC50		0.35	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		

Toxicity to fish (chronic)

No	Substance name	CAS no.	EC no.
1	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
NOEC		0.16	mg/l
Species	Danio rerio		
Method	OECD 210		
Source	ECHA		

Toxicity to Daphnia (acute)

No	Substance name	CAS no.	EC no.
1	cis-2-tert-butylcyclohexyl acetate	20298-69-5	243-718-1
EC50		17	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EU C.2		
Source	ECHA		
2	benzyl-salicylate	118-58-1	204-262-9
EC50		2.25	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
3	Orange, sweet, ext.	8028-48-6	232-433-8
EC50		0.67	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	OECD 202		
4	3,7-dimethyloctan-3-ol	78-69-3	201-133-9
EC50		14.2	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
5	undecan-4-olide	104-67-6	203-225-4
EC50		5.85	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EU Method C.2		
Source	ECHA		
6	(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	79-77-6	201-224-3
EC50		4.03	mg/l

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Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	
7	allyl 3-cyclohexylpropionate	2705-87-5 220-292-5
EC50	3.8	mg/l
Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	
8	(2E)-2-(phenylmethylidene)octanal	165184-98-5 639-566-4
EC50	> 0.36	- 0.58 mg/l
Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	
9	hexyl-salicylate	6259-76-3 228-408-6
EC50	0.357	mg/l
Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	
10	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	- 915-730-3
EC50	1.38	mg/l
Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	
11	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	16409-43-1 240-457-5
EC50	33.2	mg/l
Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	
12	2-methylundecanal	110-41-8 203-765-0
EC50	0.21	mg/l
Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	
13	(Z)-3-hexenyl salicylate	65405-77-8 265-745-8
EC50	2.7	mg/l
Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	

Toxicity to Daphnia (chronic)

No	Substance name	CAS no.	EC no.
1	undecan-4-olide	104-67-6	203-225-4
NOEC		1.38	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		

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Source	ECHA		
2	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
NOEC		0.063	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
3	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
NOEC		0.028	mg/l
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	cis-2-tert-butylcyclohexyl acetate	20298-69-5	243-718-1
EC50		4.2	mg/l
Duration of exposure		72	h
Species	Scenedesmus subspicatus		
Method	OECD 201		
Source	ECHA		
2	benzyl-salicylate	118-58-1	204-262-9
ErC50		1.29	mg/l
Duration of exposure		72	h
Species	Selenastrum capricornutum		
Method	OECD 201		
Source	ECHA		
3	Orange, sweet, ext.	8028-48-6	232-433-8
ErC50		150	mg/l
Duration of exposure		72	h
Species	Desmodosmus subspicatus		
Method	OECD 201		
4	3,7-dimethyloctan-3-ol	78-69-3	201-133-9
EC50		21.6	mg/l
Duration of exposure		72	h
Species	Desmodosmus subspicatus		
Method	DIN 38412		
Source	ECHA		
5	undecan-4-olide	104-67-6	203-225-4
ErC50		5.94	mg/l
Duration of exposure		48	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
6	(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	79-77-6	201-224-3
EC50		22.15	mg/l
Duration of exposure		72	h
Species	Desmodosmus subspicatus		
Method	DIN 38412 T.9		
Source	ECHA		
7	allyl 3-cyclohexylpropionate	2705-87-5	220-292-5
ErC50		3.0	mg/l
Duration of exposure		72	h

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Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
8	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
EC50	>	0.065	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
9	hexyl-salicylate	6259-76-3	228-408-6
ErC50		0.61	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
10	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
EC50	>	2.6	mg/l
Duration of exposure		72	h
Species	Scenedesmus subspicatus		
Method	OECD 201		
Source	ECHA		
11	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	16409-43-1	240-457-5
EC50		36	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
12	2-methylundecanal	110-41-8	203-765-0
EC50		0.18	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
13	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
EC50		0.61	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)

No	Substance name	CAS no.	EC no.
1	cis-2-tert-butylcyclohexyl acetate	20298-69-5	243-718-1
NOEC		0.57	mg/l
Duration of exposure		72	h
Species	Scenedesmus subspicatus		
Method	OECD 201		
Source	ECHA		

Bacteria toxicity

No	Substance name	CAS no.	EC no.
1	cis-2-tert-butylcyclohexyl acetate	20298-69-5	243-718-1
NOEC		100	
Duration of exposure		61	day(s)

Trade name: Duftstoff Tropical

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Species	activated sludge
Method	OECD 301 F
Source	ECHA
2	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - 915-730-3
EC10	100 mg/l
Species	activated sludge
Method	OECD 301 F
Source	ECHA
3	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran 16409-43-1 240-457-5
EC50	> 1000 mg/l
Species	activated sludge
Method	OECD 209
Source	ECHA

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	cis-2-tert-butylcyclohexyl acetate	20298-69-5	243-718-1
Value		43	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	not readily biodegradable		
2	benzyl-salicylate	118-58-1	204-262-9
Type	aerobic biodegradation		
Value		93	%
Method	OECD 301 F		
Source	ECHA		
3	Orange, sweet, ext.	8028-48-6	232-433-8
Value	72	- 83.4	%
Duration		28	day(s)
Method	OECD 301 B		
Evaluation	readily biodegradable		
4	3,7-dimethyloctan-3-ol	78-69-3	201-133-9
Type	aerobic biodegradation		
Value	60	- 70	%
Duration		28	d
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
5	(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	79-77-6	201-224-3
Value	70	- 80	%
Duration		28	day(s)
Method	EEC 79/831		
Source	ECHA		
Evaluation	readily biodegradable		
6	allyl 3-cyclohexylpropionate	2705-87-5	220-292-5
Value		86	%
Duration		28	day(s)
Method	OECD 301 D		
Source	ECHA		
Evaluation	readily biodegradable		

Trade name: Duftstoff Tropical

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7	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
Value	appr.	97	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
8	hexyl-salicylate	6259-76-3	228-408-6
Value		91	%
Method	OECD 301 F		
Source	ECHA		
9	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
Type	aerobic biodegradation		
Value		11	%
Duration		28	d
Method	OECD 301 C		
Source	ECHA		
Evaluation	not readily biodegradable		
10	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	16409-43-1	240-457-5
Value		79	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
11	2-methylundecanal	110-41-8	203-765-0
Type	aerobic biodegradation		
Value		68	%
Duration		22	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
12	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
Value		89	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	degradable		

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	benzyl-salicylate	118-58-1	204-262-9
BCF		202	
Method	QSAR		
Source	ECHA		
2	Orange, sweet, ext.	8028-48-6	232-433-8
BCF	32	- 156	
3	hexyl-salicylate	6259-76-3	228-408-6
BCF		3.95	
Source	ECHA		
4	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-	-	915-730-3

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octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			
BCF	appr.	600	
Species	Lepomis macrochirus		
Method	OECD 305		
Source	ECHA		
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	cis-2-tert-butylcyclohexyl acetate	20298-69-5	243-718-1
log Pow	4.7	-	4.8
Reference temperature		25	°C
Method	OECD 117		
Source	ECHA		
2	benzyl-salicylate	118-58-1	204-262-9
log Pow		4.0	
Reference temperature		35	°C
Method	OECD 117		
Source	ECHA		
3	Orange, sweet, ext.	8028-48-6	232-433-8
log Pow	>=	4	
4	alpha,alpha-dimethylphenethyl acetate	151-05-3	205-781-3
log Pow	appr.	3.64	
Reference temperature		25	°C
Source	ECHA		
5	3,7-dimethyloctan-3-ol	78-69-3	201-133-9
log Pow		3.3	
Reference temperature		20	°C
Method	OECD 107		
Source	ECHA		
6	undecan-4-olide	104-67-6	203-225-4
log Pow		3.6	
Reference temperature		25	°C
Method	OECD 117		
Source	ECHA		
7	3-methyl-5-phenylpentanol	55066-48-3	259-461-3
log Pow		2.7	
Reference temperature		30	°C
Source	ECHA		
8	(E)-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	79-77-6	201-224-3
log Pow		4	
Reference temperature		25	°C
Method	EEC 79/831		
Source	ECHA		
9	allyl 3-cyclohexylpropionate	2705-87-5	220-292-5
log Pow		4.276	
Reference temperature		20	°C
Method	OECD 107		
Source	ECHA		
10	(2E)-2-(phenylmethylidene)octanal	165184-98-5	639-566-4
log Pow	appr.	5.3	
Reference temperature		24	°C
Method	OECD 117		
Source	ECHA		
11	hexyl-salicylate	6259-76-3	228-408-6
log Pow		5.5	
Method	OECD 117		
Source	ECHA		

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12	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
log Pow		5.6	- 5.7
Reference temperature			30 °C
Method	OECD 117		
Source	ECHA		
13	tetrahydro-4-methyl-2-(2-methylprop-1-enyl)pyran	16409-43-1	240-457-5
log Pow			3.3
Reference temperature			23 °C
Method	OECD 117		
Source	ECHA		
14	2-methylundecanal	110-41-8	203-765-0
log Pow			4.9
Reference temperature			35 °C
Source	ECHA		
15	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
log Pow			4.8
Reference temperature			25 °C
Method	OECD 117		
Source	ECHA		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.
vPvB assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information
Do not discharge into drains or waters and do not dispose of in public landfills.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

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Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

Class	9
Classification code	M6
Packing group	III
Hazard identification no.	90
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	cis-2-tert-butylcyclohexyl acetate
	Orange, sweet, ext.
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.2 Transport IMDG

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	cis-2-tert-butylcyclohexyl acetate
	Orange, sweet, ext.
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

14.3 Transport ICAO-TI / IATA

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name	cis-2-tert-butylcyclohexyl acetate
	Orange, sweet, ext.
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Trade name: Duftstoff Tropical**Product no.:** 255999**Current version :** 2.0.0, issued: 03.02.2022**Replaced version:** 1.0.0, issued: 17.12.2021**Region:** GB**Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:	E2
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Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)

VOC content	5	%
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Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.
Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.
Adhere to the national sanitary and occupational safety regulations when using this product.
Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361f	Suspected of damaging fertility.
H373o	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.
The safety data sheet describes products with a view to safety requirements.
It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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