

Trade name: LINARI-CIELO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 02.12.2024**Region:**
GER**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****LINARI-CIELO Car Fragrance****UFI:****AVAA-F1ES-100X-R2SU****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Car fragrance

Uses advised against

No data available.

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

LINARI GmbH

Jaffestrasse 12 | DOCK 2

21109 Hamburg

Germany

Telephone no. +49 40-7566850

Fax no. +49 40-7534505

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number) international:

GBK GmbH - Global Regulatory Compliance +49 (0)6132-84463

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:

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1 one

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1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
(R)-p-mentha-1,8-diene

1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde

linalool

7-hydroxycitronellal

linalyl acetate

Coumarin

3,7-dimethylnona-1,6-dien-3-ol

Hazard statement(s)

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H411

Toxic to aquatic life with long lasting effects.

Hazard statements (EU)

EUH208

Contains alpha-methyl-1,3-benzodioxole-5-propionaldehyde, Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene, pentadecan-15-olide, (E)-3-methyl-5-cyclopentadecen-1-one, geraniol, neryl-acetate, 2-(4-tert-butylbenzyl)propionaldehyde, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one, citral, 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one, piperonal, alpha-hexylcinnamaldehyde, cineol, [3R-(3alpha,3beta,6alpha,7beta,8alpha)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene, Citronellol. May produce an allergic reaction.

Precautionary statement(s)

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P391

Collect spillage.

P501

Dispose of contents/container to a facility in accordance with local and national regulations.

UFI:

AVAA-F1ES-100X-R2SU

2.3 Other hazards

According to the information provided in the supply chain: This product 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.

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	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			

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	54464-57-2 259-174-3 - -	Aquatic Chronic 1; H410 Skin Sens. 1B; H317 Skin Irrit. 2; H315	< 5,00	wt%
2	1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			
	68155-66-8 268-978-3 - -	Aquatic Chronic 1; H410 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 2,50	wt%
3	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran			
	1222-05-5 214-946-9 603-212-00-7 -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 2,50	wt%
4	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol			
	139504-68-0 412-300-2 603-154-00-2 01-0000015959-52	Aquatic Chronic 2; H411 Eye Irrit. 2; H319	< 2,50	wt%
5	[3R-(3alpha,3abeta,6alpha,7beta,8aalpha)]-octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-6-ol			
	77-53-2 201-035-6 - -	Aquatic Chronic 2; H411	< 2,50	wt%
6	(R)-p-mentha-1,8-diene			
	5989-27-5 227-813-5 601-096-00-2 -	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	< 2,50	wt%
7	1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			
	68155-67-9 268-979-9 - -	Aquatic Chronic 1; H410 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 2,50	wt%
8	2,6-dimethyloct-7-en-2-ol			
	18479-58-8 242-362-4 - 01-2119457274-37	Eye Irrit. 2; H319 Skin Irrit. 2; H315 STOT SE 3; H336	< 2,50	wt%
9	4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde			
	31906-04-4 250-863-4 605-040-00-8 -	Skin Sens. 1A; H317	< 2,50	wt%
10	linalool			
	78-70-6 201-134-4 603-235-00-2 -	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	< 2,50	wt%
11	7-hydroxycitronellal			
	107-75-5 203-518-7 - 01-2119973482-31	Eye Irrit. 2; H319 Skin Sens. 1B; H317	< 2,50	wt%
12	linalyl acetate			

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	115-95-7 204-116-4 - -	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	< 2,50	wt%
13	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%
14	3,7-dimethylnona-1,6-dien-3-ol			
	10339-55-6 233-732-6 - 01-2119969272-32	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 2,50	wt%
15	OXACYCLOHEXADECEN-2-ONE			
	34902-57-3 422-320-3 606-092-00-4 -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 2,50	wt%
16	alpha-methyl-1,3-benzodioxole-5-propionaldehyde			
	1205-17-0 214-881-6 - -	Aquatic Chronic 2; H411 Skin Sens. 1B; H317 Repr. 2; H361	< 2,50	wt%
17	Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene			
	144020-22-4 482-330-9 - 01-2119430466-41	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Sens. 1B; H317	< 2,50	wt%
18	pentadecan-15-olide			
	106-02-5 203-354-6 - 01-2119987323-31	Aquatic Chronic 2; H411 Skin Sens. 1B; H317	< 2,50	wt%
19	vinyl acetate			
	108-05-4 203-545-4 607-023-00-0 01-2119471301-50	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT SE 3; H335 Carc. 2; H351 Aquatic Chronic 3; H412	< 2,50	wt%
20	(E)-3-methyl-5-cyclopentadecen-1-one			
	82356-51-2 429-900-5 606-119-00-X 01-0000017618-62	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Sens. 1B; H317	< 0,50	wt%
21	geraniol			
	106-24-1 203-377-1 603-241-00-5 -	Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 0,50	wt%
22	neryl-acetate			
	141-12-8 205-459-2 - 01-2120748334-54	Skin Sens. 1B; H317	< 0,50	wt%
23	2-(4-tert-butylbenzyl) propionaldehyde			

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	80-54-6 201-289-8 605-041-00-3 -	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Repr. 1B; H360Fd Aquatic Chronic 3; H412	< 0,30	wt%
24	3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one			
	127-51-5 204-846-3 -	Aquatic Chronic 2; H411 Skin Sens. 1B; H317	< 0,50	wt%
25	p-mentha-1,4-diene			
	99-85-4 202-794-6 -	Flam. Liq. 3; H226 Repr. 2; H361 Aquatic Chronic 2; H411	< 0,50	wt%
26	citral		pls. refer to footnote (2)	
	5392-40-5 226-394-6 605-019-00-3 01-2119462829-23	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 0,50	wt%
27	2,6-di-tert-butyl-p-cresol			
	128-37-0 204-881-4 -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,50	wt%
28	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one			
	33704-61-9 251-649-3 -	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	< 0,50	wt%
29	piperal			
	120-57-0 204-409-7 -	Skin Sens. 1B; H317 Repr. 2; H361	< 0,50	wt%
30	alpha-hexylcinnamaldehyde			
	101-86-0 202-983-3 -	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Skin Sens. 1B; H317	< 0,50	wt%
31	cineol			
	470-82-6 207-431-5 -	Flam. Liq. 3; H226 Skin Sens. 1B; H317	< 0,50	wt%
32	[3R-(3alpha,3beta,6alpha,7beta,8alpha)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene			
	67874-81-1 267-510-5 -	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,50	wt%
33	Citronellol			
	106-22-9 203-375-0 -	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 0,50	wt%
34	2,6-di-tert-butyl-p-cresol			
	128-37-0 204-881-4 -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,50	wt%
	01-2119555270-46			

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35	[3R-(3alpha,3abeta,7beta,8aalpha)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene		
	469-61-4 207-418-4 - -	Aquatic Acute 1; H400 Asp. Tox. 1; H304 Aquatic Chronic 1; H410	< 0,10 wt%
36	[3R-(3alpha,3abeta,7beta,8aalpha)]-octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene		
	546-28-1 208-898-8 - -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Asp. Tox. 1; H304	< 0,10 wt%

Full text of H- and EUH-phrases, if not already mentioned in section 2.2: see section 16.

(1) Aberrant from/in addition to the classification set out in Annex VI, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
6	-	-	M = 1	-
19	D	-	-	-
35	-	-	M = 10	M = 10
36	-	-	M = 10	M = 10

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

No	Route, target organ, concrete effect
16	H361 inhalational; -; -
25	H361 inhalational; -; -

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 persisting adverse effects, consult a physician. 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.

After skin contact

In case of contact with skin wash off immediately with copious amounts of water.

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).

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

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

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High power water jet

5.2 Special hazards arising from the substance or mixtureIn 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 protective clothing. 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.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Collect mechanically. When collected, handle material as described under the section heading "Disposal considerations". Avoid raising dust.

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 dust. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

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.

Storage Class according TRGS 510

10-13

Combustible and Non-combustible liquids and solids that cannot be assigned to storage class 1-8.

7.3 Specific end use(s)

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No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	(R)-p-mentha-1,8-diene	5989-27-5	227-813-5
	TRGS 900		
	(R)-p-Mentha-1,8-dien (D-Limonen)		
	WEL long-term (8-hr TWA reference period)	28	mg/m ³ 5 ml/m ³
	Ceiling Limit	2(II)	
	Skin resorption / sensibilisation	H, Sh	
	Notes	Y	
2	vinyl acetate	108-05-4	203-545-4
	2009/161/EU		
	vinyl acetate		
	WEL short-term (15 min reference period)	35,2	mg/m ³ 10 ppm
	WEL long-term (8-hr TWA reference period)	17,6	mg/m ³ 5 ppm
	TRGS 900		
	Vinylacetat		
	WEL long-term (8-hr TWA reference period)	36	mg/m ³ 10 ml/m ³
	Ceiling Limit	1;=2=(I)	
	Skin resorption / sensibilisation	H	
	Notes	Y	
3	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
	TRGS 900		
	2,6-Di-tert-butyl-p-kresol		
	WEL long-term (8-hr TWA reference period)	10 E	mg/m ³
	Ceiling Limit	4 (II)	
	Notes	Y, 11	
4	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
	TRGS 900		
	2,6-Di-tert-butyl-p-kresol		
	WEL long-term (8-hr TWA reference period)	10 E	mg/m ³
	Ceiling Limit	4 (II)	
	Notes	Y, 11	

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

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol			139504-68-0 412-300-2
	dermal	Long term (chronic)	systemic	5 mg/kg bw/day
	inhalative	Long term (chronic)	systemic	17,6 mg/m ³
2	2,6-dimethyloct-7-en-2-ol			18479-58-8 242-362-4
	dermal	Long term (chronic)	systemic	7 mg/kg bw/day
	inhalative	Long term (chronic)	systemic	24,7 mg/m ³
3	7-hydroxycitronellal			107-75-5 203-518-7
	dermal	Long term (chronic)	systemic	4,9 mg/kg bw/day
	dermal	Short term (acut)	local	500 µg/cm ²
	inhalative	Long term (chronic)	systemic	8,7 mg/m ³
4	Coumarin			91-64-5 202-086-7

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	dermal	Long term (chronic)	systemic	0,79	mg/kg/day
	inhalative	Long term (chronic)	systemic	6,78	mg/m ³
5	3,7-dimethylnona-1,6-dien-3-ol			10339-55-6 233-732-6	
	dermal	Long term (chronic)	systemic	2,7	mg/kg/day
	dermal	Short term (acut)	systemic	5,5	mg/kg/day
	dermal	Long term (chronic)	local	1,6	mg/cm ²
	dermal	Short term (acut)	local	1,6	mg/cm ²
	inhalative	Long term (chronic)	systemic	3	mg/m ³
	inhalative	Short term (acut)	systemic	18	mg/m ³
6	Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene			144020-22-4 482-330-9	
	dermal	Long term (chronic)	systemic	2	mg/kg bw/day
	dermal	Long term (chronic)	local	5,399	µg/cm ²
	inhalative	Long term (chronic)	systemic	7,3	mg/m ³
7	vinyl acetate			108-05-4 203-545-4	
	dermal	Long term (chronic)	systemic	0,42	mg/kg/day
	inhalative	Short term (acut)	systemic	35,2	mg/m ³
	inhalative	Short term (acut)	local	35,2	mg/m ³
	inhalative	Long term (chronic)	systemic	17,6	mg/m ³
	inhalative	Long term (chronic)	local	17,6	mg/m ³
8	neryl-acetate			141-12-8 205-459-2	
	dermal	Long term (chronic)	systemic	2,05	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	7,24	mg/m ³
9	citral			5392-40-5 226-394-6	
	dermal	Long term (chronic)	systemic	1,7	mg/kg/day
	dermal	Long term (chronic)	local	140	µg/cm ²
	inhalative	Long term (chronic)	systemic	9	mg/m ³
10	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one			33704-61-9 251-649-3	
	dermal	Long term (chronic)	systemic	1,18	mg/kg bw/day
	dermal	Long term (chronic)	local	6,056	µg/cm ²
	inhalative	Long term (chronic)	systemic	4,18	mg/m ³
11	2,6-di-tert-butyl-p-cresol			128-37-0 204-881-4	
	dermal	Long term (chronic)	systemic	0,5	mg/kg/day
	inhalative	Long term (chronic)	systemic	1,76	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol			139504-68-0 412-300-2	
	oral	Long term (chronic)	systemic	2,5	mg/kg bw/day
	dermal	Long term (chronic)	systemic	2,5	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	4,35	mg/m ³
2	2,6-dimethyloct-7-en-2-ol			18479-58-8 242-362-4	
	oral	Long term (chronic)	systemic	2,5	mg/kg bw/day
	dermal	Long term (chronic)	systemic	2,5	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	4,35	mg/m ³
3	7-hydroxycitronellal			107-75-5 203-518-7	
	oral	Long term (chronic)	systemic	1,2	mg/kg bw/day
	dermal	Long term (chronic)	systemic	2,5	mg/kg bw/day
	dermal	Short term (acut)	local	500	µg/cm ²
	inhalative	Long term (chronic)	systemic	2,1	mg/m ³

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4	Coumarin			91-64-5 202-086-7
	oral	Long term (chronic)	systemic	0,39 mg/kg/day
	dermal	Long term (chronic)	systemic	0,39 mg/kg/day
	inhalative	Long term (chronic)	systemic	1,69 mg/m ³
5	3,7-dimethylnona-1,6-dien-3-ol			10339-55-6 233-732-6
	oral	Long term (chronic)	systemic	0,2 mg/kg/day
	oral	Short term (acut)	systemic	1,3 mg/kg/day
	dermal	Long term (chronic)	systemic	1,4 mg/kg/day
	dermal	Short term (acut)	systemic	2,7 mg/kg/day
	dermal	Long term (chronic)	local	1,6 mg/cm ²
	dermal	Short term (acut)	local	1,6 mg/cm ²
	inhalative	Long term (chronic)	systemic	0,74 mg/m ³
	inhalative	Short term (acut)	systemic	4,4 mg/m ³
6	Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatiene			144020-22-4 482-330-9
	oral	Long term (chronic)	systemic	1,2 mg/kg bw/day
	dermal	Long term (chronic)	systemic	1,2 mg/kg bw/day
	dermal	Long term (chronic)	local	2,699 µg/cm ²
	inhalative	Long term (chronic)	systemic	2,1 mg/m ³
7	neryl-acetate			141-12-8 205-459-2
	oral	Long term (chronic)	systemic	0,733 mg/kg bw/day
	dermal	Long term (chronic)	systemic	0,733 mg/kg bw/day
	inhalative	Long term (chronic)	systemic	1,09 mg/m ³
8	citral			5392-40-5 226-394-6
	oral	Long term (chronic)	systemic	0,6 mg/kg/day
	dermal	Long term (chronic)	systemic	1 mg/kg/day
	dermal	Long term (chronic)	local	140 µg/cm ²
	inhalative	Long term (chronic)	systemic	2,7 mg/m ³
9	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one			33704-61-9 251-649-3
	oral	Long term (chronic)	systemic	0,25 mg/kg/day
	dermal	Long term (chronic)	systemic	0,25 mg/kg/day
	dermal	Long term (chronic)	local	3226 µg/cm ²
	inhalative	Long term (chronic)	systemic	0,44 mg/m ³
10	2,6-di-tert-butyl-p-cresol			128-37-0 204-881-4
	oral	Long term (chronic)	systemic	0,25 mg/kg/day
	dermal	Long term (chronic)	systemic	0,25 mg/kg/day
	inhalative	Long term (chronic)	systemic	0,435 mg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol		139504-68-0 412-300-2	
	water	fresh water	0,022	mg/L
	water	marine water	0,002	mg/L
	water	fresh water sediment	0,218	mg/kg dry weight
	water	marine water sediment	0,022	mg/kg dry weight
	soil	-	2	mg/kg dry weight
	sewage treatment plant	-	1	mg/L
2	2,6-dimethyloct-7-en-2-ol		18479-58-8 242-362-4	

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	water	fresh water	27,8	µg/L
	water	marine water	2,78	µg/L
	water	fresh water sediment	0,594	mg/kg dry weight
	water	marine water sediment	0,059	mg/kg dry weight
	soil	-	0,103	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	111	mg/kg food
3	7-hydroxycitronellal		107-75-5 203-518-7	
	water	fresh water	31,6	µg/L
	water	marine water	3,16	µg/L
	soil	-	0,011	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
4	Coumarin		91-64-5 202-086-7	
	water	fresh water	19	µg/L
	water	marine water	1,9	µg/L
	water	fresh water sediment	0,15	mg/kg dry weight
	water	marine water sediment	0,015	mg/kg dry weight
	soil	-	0,018	mg/kg dry weight
	sewage treatment plant	-	6,4	mg/L
	secondary poisoning	-	30,7	mg/kg food
5	3,7-dimethylnona-1,6-dien-3-ol		10339-55-6 233-732-6	
	water	fresh water	0,023	mg/L
	water	marine water	0,002	mg/L
	water	Aqua intermittent	0,23	mg/L
	water	fresh water sediment	0,223	mg/kg dry weight
	water	marine water sediment	0,022	mg/kg dry weight
	soil	-	0,031	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	8,53	mg/kg
	with reference to: food			
6	Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene		144020-22-4 482-330-9	
	water	fresh water	2,31	µg/L
	water	marine water	0,231	µg/L
	water	fresh water sediment	2,9	mg/kg dry weight
	water	marine water sediment	0,29	mg/kg dry weight
	soil	-	0,54	mg/kg dry weight
	sewage treatment plant	-	1	mg/L
7	pentadecan-15-olide		106-02-5 203-354-6	
	water	fresh water	2,7	µg/L
	water	marine water	0,27	µg/L
	water	fresh water sediment	21	mg/kg dry weight

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	water	marine water sediment	4,2	mg/kg dry weight
	soil	-	5,44	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
8	vinyl acetate		108-05-4 203-545-4	
	water	fresh water	0,016	mg/L
	water	marine water	0,0016	mg/L
	water	fresh water sediment	0,067	mg/kg
	water	marine water sediment	0,0067	mg/kg
	soil	-	0,004	mg/kg
	sewage treatment plant	-	6	mg/L
9	(E)-3-methyl-5-cyclopentadecen-1-one		82356-51-2 429-900-5	
	water	fresh water	2,42	µg/L
	water	marine water	0,242	µg/L
	water	fresh water sediment	3,66	mg/kg dry weight
	water	marine water sediment	0,37	mg/kg dry weight
	soil	-	2,34	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	111,1	mg/kg food
10	neryl-acetate		141-12-8 205-459-2	
	water	fresh water	4,9	µg/L
	water	marine water	0,49	µg/L
	water	fresh water sediment	0,455	mg/kg dry weight
	water	marine water sediment	0,045	mg/kg dry weight
	soil	-	0,088	mg/kg dry weight
	sewage treatment plant	-	100	mg/L
	secondary poisoning	-	29,3	mg/kg food
11	citral		5392-40-5 226-394-6	
	water	fresh water	0,007	mg/L
	water	marine water	0,001	mg/L
	water	fresh water sediment	0,125	mg/kg dry weight
	water	marine water sediment	0,013	mg/kg dry weight
	soil	-	0,021	mg/kg dry weight
	sewage treatment plant	-	1,6	mg/L
12	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one		33704-61-9 251-649-3	
	water	fresh water	0,017	mg/L
	water	marine water	0,002	mg/L
	water	fresh water sediment	0,488	mg/kg dry weight
	water	marine water sediment	0,049	mg/kg dry weight
	soil	-	0,088	mg/kg dry weight
	with reference to: dry weight			
	sewage treatment plant	-	10	mg/L

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	secondary poisoning	-	1,11	mg/kg food
13	2,6-di-tert-butyl-p-cresol		128-37-0 204-881-4	
	water	fresh water	0,199	µg/L
	water	marine water	0,02	µg/L
	water	fresh water sediment	0,458	mg/kg dry weight
	water	marine water sediment	0,046	mg/kg dry weight
	soil	-	0,054	mg/kg dry weight
	sewage treatment plant	-	0,017	mg/L
	secondary poisoning	-	16,67	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 dust formation, take appropriate measures for breathing protection in the event that 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	
solid	
Form	
pellets	
Colour	
blue	
Odour	
characteristic	
pH value	
reason for missing pH	substance/mixture is non-soluble (in water)
Boiling point / boiling range	
No data available	
Melting point/freezing point	

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No data available			
Decomposition temperature			
No data available			
Flash point			
No data available			
Ignition temperature			
No data available			
Flammability			
No data available			
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure			
No data available			
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
No data available			
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	2,6-dimethyloct-7-en-2-ol	18479-58-8	242-362-4
	log Pow	3,25	
	Reference temperature	40	°C
	Method	OECD 117	
	Source	ECHA	
2	7-hydroxycitronellal	107-75-5	203-518-7
	log Pow	1,68	
	Reference temperature	25	°C
	Method	OECD 107	
	Source	ECHA	
3	Coumarin	91-64-5	202-086-7
	log Pow	1,39	
	Reference temperature	25	°C
	Method	QSAR	
	Source	ECHA	
4	3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	233-732-6
	log Pow	3,3	
	Reference temperature	20	°C
	Method	OECD 107	
	Source	ECHA	
5	Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	144020-22-4	482-330-9
	log Pow	5,3 - 5,8	
	Method	OECD 117	
	Source	ECHA	
6	pentadecan-15-olide	106-02-5	203-354-6
	log Pow	5,79	
	Reference temperature	25	°C
	with reference to	pH 6.7	

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Method	OECD 123		
Source	ECHA		
7	vinyl acetate	108-05-4	203-545-4
log Pow		0,73	
Reference temperature		25	°C
Source	ECHA		
8	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
log Pow		5,522	
Reference temperature		25	°C
Method	OECD 123		
Source	ECHA		
9	neryl-acetate	141-12-8	205-459-2
log Pow		3,98	
Reference temperature		37	°C
Method	OECD 117		
Source	ECHA		
10	citral	5392-40-5	226-394-6
log Pow		2,76	
Reference temperature		25	°C
Method	OECD 107		
Source	ECHA		
11	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
log Pow		4,362	
12	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	33704-61-9	251-649-3
log Pow		4,2	
Reference temperature		20	°C
Method	OECD 107		
Source	ECHA		
13	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
log Pow		~ 5,1	
Source	ECHA / weight of evidence		

Kinematic viscosity

No data available

Particle characteristics

No data available

9.2 Other information**Other information**

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

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

strong oxidizing agents; strong acids; strong bases

10.6 Hazardous decomposition products

None if stored, handled and transported properly. In case of fire: see section 5.

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Region:
GER**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)	
Product Name	
LINARI-CIELO Car Fragrance	
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	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	139504-68-0	412-300-2
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
2	2,6-dimethyloct-7-en-2-ol	18479-58-8	242-362-4
LD50		4100	mg/kg bodyweight
Species	rat		
Source	ECHA		
3	7-hydroxycitronellal	107-75-5	203-518-7
LD50	>	6400	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	233-732-6
LD50		5283	mg/kg bodyweight
Species	rat		
Method	Pre-guideline, Non-GLP		
Source	ECHA		
5	Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	144020-22-4	482-330-9
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
6	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
7	neryl-acetate	141-12-8	205-459-2
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
8	citral	5392-40-5	226-394-6
LD50	appr.	6800	mg/kg bodyweight
Species	rat		
Method	BASF-Test		
Source	ECHA		
9	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	33704-61-9	251-649-3
LD50		2685	mg/kg bodyweight
Species	rat		
Method	OECD 401		

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Source	ECHA
10 2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4
LD50	> 6000 mg/kg bodyweight
Species	rat
Method	OECD 401
Source	ECHA

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	139504-68-0	412-300-2
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	EU Method B.3		
Source	ECHA		
2	7-hydroxycitronellal	107-75-5	203-518-7
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	233-732-6
LD50	>	5000	mg/kg bodyweight
Species	rabbit		
Method	Pre-guideline, Non-GLP		
Source	ECHA		
4	Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	144020-22-4	482-330-9
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
5	vinyl acetate	108-05-4	203-545-4
LD50	>	7440	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
6	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
7	neryl-acetate	141-12-8	205-459-2
LD50	>	5000	mg/kg bodyweight
Species	rabbit		
Method	Pre-guideline, Non-GLP		
Source	ECHA		
8	citral	5392-40-5	226-394-6
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	BASF-Test		
Source	ECHA		
9	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	vinyl acetate	108-05-4	203-545-4
ATE	10	- 20	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		

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Species	rat		
Source	1272/2008/EC, Annex VI		
Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	2,6-dimethyloct-7-en-2-ol	18479-58-8	242-362-4
Species	rabbit		
Method	EU B.46		
Source	ECHA		
Evaluation	irritant		
2	7-hydroxycitronellal	107-75-5	203-518-7
Duration of exposure	4		h
Species	rabbit		
Method	EU B.4		
Source	ECHA		
Evaluation	irritant		
3	Coumarin	91-64-5	202-086-7
Species	rabbit		
Method	EU Method B.4		
Source	ECHA		
Evaluation	non-irritant		
4	3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	233-732-6
Species	Human Skin Model		
Method	OECD 439		
Source	ECHA		
Evaluation	irritant		
5	Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	144020-22-4	482-330-9
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
6	pentadecan-15-olide	106-02-5	203-354-6
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
7	vinyl acetate	108-05-4	203-545-4
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
8	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
9	neryl-acetate	141-12-8	205-459-2
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		
10	citral	5392-40-5	226-394-6
Source	ECHA		
Evaluation	irritant		
11	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	33704-61-9	251-649-3
Duration of exposure	15		min
Method	OECD 439		
Source	ECHA		
Evaluation	irritant		

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12	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
Species	rabbit		
Method	Draize method		
Source	ECHA		
Evaluation	non-irritant		
Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	139504-68-0	412-300-2
Species	rabbit		
Method	EU B.5		
Source	ECHA		
Evaluation	irritant		
2	2,6-dimethyloct-7-en-2-ol	18479-58-8	242-362-4
Species	rabbit		
Method	Draize method		
Source	ECHA		
Evaluation	irritant		
3	7-hydroxycitronellal	107-75-5	203-518-7
Species	rabbit		
Method	BASF-Test		
Source	ECHA		
Evaluation	non-irritant		
4	Coumarin	91-64-5	202-086-7
Species	rabbit		
Method	EPA OPP 81-4		
Source	ECHA		
Evaluation	non-irritant		
5	3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	233-732-6
Species	rabbit		
Method	Pre-guideline, Non-GLP		
Source	ECHA		
Evaluation	irritant		
6	Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	144020-22-4	482-330-9
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
7	vinyl acetate	108-05-4	203-545-4
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
8	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
9	neryl-acetate	141-12-8	205-459-2
Species	Human		
Method	OECD 492		
Source	ECHA		
Evaluation	non-irritant		
10	citral	5392-40-5	226-394-6
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		

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11	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	33704-61-9	251-649-3
Duration of exposure		10	s
Method		OECD 438	
Source		ECHA	
Evaluation		irritant	
12	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
Species		rabbit	
Method		Draize method	
Source		ECHA	
Evaluation		non-irritant	
Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	2,6-dimethyloct-7-en-2-ol	18479-58-8	242-362-4
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
2	7-hydroxycitronellal	107-75-5	203-518-7
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		sensitizing	
3	Coumarin	91-64-5	202-086-7
Route of exposure		Skin	
Method		OECD 429	
Source		ECHA	
Evaluation		sensitizing	
4	3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	233-732-6
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		sensitizing	
5	Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	144020-22-4	482-330-9
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		sensitizing	
Evaluation/classification		Based on available data, the classification criteria are met.	
6	vinyl acetate	108-05-4	203-545-4
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		non-sensitizing	
7	neryl-acetate	141-12-8	205-459-2
Route of exposure		Skin	
Method		QSAR	
Source		ECHA	
Evaluation		sensitizing	
8	citral	5392-40-5	226-394-6
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	

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Evaluation	sensitizing		
9	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	33704-61-9	251-649-3
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	sensitizing		
10	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
Route of exposure	Skin		
Source	ECHA / Read across		
Evaluation	non-sensitizing		
Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	139504-68-0	412-300-2
Type of examination	in vitro chromosome aberration test		
Species	Chinese hamster lung (CHL)		
Method	OECD 473		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	7-hydroxycitronellal	107-75-5	203-518-7
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	Coumarin	91-64-5	202-086-7
Type of examination	Bacterial Reverse Mutation Test		
Species	S. typhimurium TA 1535, TA 1537, TA 98 and TA 100		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	233-732-6
Type of examination	Bacterial Reverse Mutation Test		
Species	S. typhimurium TA 1535, TA 1537, TA 98, TA 100 and TA 102		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
5	Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	144020-22-4	482-330-9
Type of examination	in vitro gene mutation study in bacteria		
Species	S. typhimurium TA 1535		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
6	pentadecan-15-olide	106-02-5	203-354-6
Species	S. typhimurium TA 1535, TA 1537, TA 98, TA 100 and TA 102		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
7	vinyl acetate	108-05-4	203-545-4
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
8	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
Type of examination	in vitro gene mutation study in bacteria		
Species	S. typhimurium TA 1535, TA 1537, TA 98, TA 100 and E. coli WP2		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
9	citral	5392-40-5	226-394-6
Method	OECD 471		
Source	ECHA		

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Evaluation/classification	Based on available data, the classification criteria are not met.		
10	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
Source	ECHA / weight of evidence		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	7-hydroxycitronellal	107-75-5	203-518-7
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	Coumarin	91-64-5	202-086-7
Route of exposure	oral		
Type of examination	Reproduction/Developmental Toxicity Screening Test		
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	233-732-6
Species	rat		
Method	ICH Guideline (FDA, 1994)		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	vinyl acetate	108-05-4	203-545-4
Route of exposure	oral		
Type of examination	Two-Generation Reproduction Toxicity Study		
Species	rat		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
5	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
NOAEL		1000	mg/kg bw/d
Species	rat		
Method	OECD 415		
Source	ECHA		
6	citral	5392-40-5	226-394-6
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
7	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
Source	ECHA / weight of evidence		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	vinyl acetate	108-05-4	203-545-4
Method	OECD 453		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		
2	citral	5392-40-5	226-394-6
Method	OECD 453		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
Source	ECHA / weight of evidence		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure			
No data available			

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	2,6-dimethyloct-7-en-2-ol	18479-58-8	242-362-4

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Route of exposure	oral		
Species	rat		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	On the basis of the available information, the classification criteria are not met.		
2	7-hydroxycitronellal	107-75-5	203-518-7
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	Coumarin	91-64-5	202-086-7
Route of exposure	oral		
NOAEL	>	138,3	mg/kg bw/d
Species	mouse		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	pentadecan-15-olide	106-02-5	203-354-6
Route of exposure	oral		
NOAEL	>=	1000	mg/kg bw/d
Species	rat		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
5	vinyl acetate	108-05-4	203-545-4
Route of exposure	oral		
Species	mouse		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	inhalational		
Species	mouse		
Method	OECD 453		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
6	neryl-acetate	141-12-8	205-459-2
Route of exposure	oral		
Species	rat		
Method	OECD 422		
Source	ECHA		
Evaluation/classification	On the basis of the available information, the classification criteria are not met.		
7	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
Route of exposure	oral		
NOAEL		25	mg/kg bw/d
Species	rats (male/female)		
Target organ	liver		
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	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	139504-68-0	412-300-2
LC50		4,1	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	EU C.1		
Source	ECHA		
2	2,6-dimethyloct-7-en-2-ol	18479-58-8	242-362-4
LC50		27,8	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
3	7-hydroxycitronellal	107-75-5	203-518-7
LC50		31,6	mg/l
Duration of exposure		96	h
Species	Leuciscus idus		
Method	DIN 38412		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	233-732-6
LC50		28	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		
5	Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	144020-22-4	482-330-9
LC50		0,63	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
6	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
LC50		0,22	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
7	citral	5392-40-5	226-394-6
LC50		6,78	mg/l
Duration of exposure		96	h
Species	Leuciscus idus		
Method	DIN 38412		
Source	ECHA		
8	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	33704-61-9	251-649-3
LC50		1,7	mg/l
Duration of exposure		96	h
Species	Oryzias latipes		
Method	OECD 203		
Source	ECHA		
9	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
LC50		0,199	mg/l
Duration of exposure		96	h
Species	freshwater fish		
Method	QSAR		
Source	ECHA		

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Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	139504-68-0	412-300-2
NOEC		0,22	mg/l
Duration of exposure		33	day(s)
Species	Pimephales promelas		
Method	OECD 210		
Source	ECHA		
2	vinyl acetate	108-05-4	203-545-4
NOEC		0,551	mg/l
Duration of exposure		34	day(s)
Species	Pimephales promelas		
Method	OECD 210		
Source	ECHA		
3	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
NOEC		0,23	mg/l
Duration of exposure		10	day(s)
Species	Pimephales promelas		
Method	OECD 212		
Source	ECHA		
4	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
NOEC		0,053	mg/l
Duration of exposure		30	day(s)
Species	Oryzias latipes		
Method	OECD 210		
Source	ECHA		
Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	139504-68-0	412-300-2
EC50		5,9	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EU Method C.2		
Source	ECHA		
2	2,6-dimethyloct-7-en-2-ol	18479-58-8	242-362-4
EC50		38	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
3	7-hydroxycitronellal	107-75-5	203-518-7
EC50		410	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EEC 79/831		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	233-732-6
EC50		23	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
5	Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	144020-22-4	482-330-9
EC50		1,82	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	92/69/EEC, C.2		
Source	ECHA		

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6	vinyl acetate	108-05-4	203-545-4
EC50		12,6	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
7	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
EC50		0,39	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
8	neryl-acetate	141-12-8	205-459-2
EC50		9,97	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
9	citral	5392-40-5	226-394-6
EC50		6,8	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	79/831/EEC		
Source	ECHA		
10	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	33704-61-9	251-649-3
EC50		1,5	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
11	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
EC50		0,48	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	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	139504-68-0	412-300-2
NOEC		1,4	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
2	2,6-dimethyloct-7-en-2-ol	18479-58-8	242-362-4
NOEC		9,5	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
3	pentadecan-15-olide	106-02-5	203-354-6
NOEC		0,068	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
4	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
NOEC		155	µg/l
Duration of exposure		21	day(s)

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Species	Daphnia magna
Method	OECD 211
Source	ECHA
5	2,6-di-tert-butyl-p-cresol 128-37-0 204-881-4
NOEC	0,069 mg/l
Duration of exposure	21 day(s)
Species	Daphnia magna
Method	OECD 211
Source	ECHA

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	139504-68-0	412-300-2
EC50		5,6	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	EU C.3		
Source	ECHA		
2	2,6-dimethyloct-7-en-2-ol	18479-58-8	242-362-4
EC50		80	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
3	7-hydroxycitronellal	107-75-5	203-518-7
EC50		123,32	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	233-732-6
EC50		13,3	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
5	vinyl acetate	108-05-4	203-545-4
EC50		12,7	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
6	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
EC50	>	30	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
7	citral	5392-40-5	226-394-6
EC50		103,8	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	DIN 38412		
Source	ECHA		
8	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	33704-61-9	251-649-3
EC50		10	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		

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Source	ECHA
9	2,6-di-tert-butyl-p-cresol 128-37-0 204-881-4
EC50	0,758 mg/l
Duration of exposure	96 h
Species	Green algae
Method	Weight of evidence - (Q)SAR
Source	ECHA

Toxicity to algae (chronic)	
No	Substance name CAS no. EC no.
1	2,6-di-tert-butyl-p-cresol 128-37-0 204-881-4
NOEC	0,24 mg/l
Duration of exposure	96 h
Species	Green algae
Method	Weight of evidence - (Q)SAR
Source	ECHA

Bacteria toxicity	
No	Substance name CAS no. EC no.
1	Coumarin 91-64-5 202-086-7
IC50	640 mg/l
Duration of exposure	3 h
Species	activated sludge
Method	ISO 8192
Source	ECHA
2	2,6-di-tert-butyl-p-cresol 128-37-0 204-881-4
EC50	1,7 mg/l
Duration of exposure	24 h
Species	Protozoa
Source	supplier
3	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one 33704-61-9 251-649-3
EC50	> 1000 mg/l
Duration of exposure	3 h
Species	activated sludge
Method	OECD 209
Source	ECHA
4	2,6-di-tert-butyl-p-cresol 128-37-0 204-881-4
EC50	1,7 mg/l
Duration of exposure	24 h
Species	Tetrahymena pyriformis (Protozoa)
Source	ECHA / weight of evidence

12.2 Persistence and degradability

Biodegradability	
No	Substance name CAS no. EC no.
1	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol 139504-68-0 412-300-2
Type	aerobic biodegradation
Value	5 %
Duration	28 day(s)
Method	OECD 301 C
Source	ECHA
2	2,6-dimethyloct-7-en-2-ol 18479-58-8 242-362-4
Value	72 %
Duration	28 day(s)
Method	OECD 301 B
Source	ECHA
Evaluation	readily biodegradable
3	7-hydroxycitronellal 107-75-5 203-518-7
Type	aerobic biodegradation
Value	80 - 90 %

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Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
4	Coumarin	91-64-5	202-086-7
Value		90	%
Duration		28	d
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
5	3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	233-732-6
Value		91	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
6	pentadecan-15-olide	106-02-5	203-354-6
Value		90	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation/classification	Readily biodegradable		
7	vinyl acetate	108-05-4	203-545-4
Type	BOD		
Value		90	%
Duration		14	d
Method	OECD 301 C		
Source	ECHA		
Evaluation	readily biodegradable		
8	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
Type	aerobic biodegradation		
Value		78,8	%
Duration		29	day(s)
Method	OECD 301 B		
Source	ECHA		
9	neryl-acetate	141-12-8	205-459-2
Value		90	%
Duration		28	day(s)
Method	OECD 301 D		
Source	ECHA		
Evaluation	readily biodegradable		
10	citral	5392-40-5	226-394-6
Type	BSB		
Value	>	90	%
Duration		28	day(s)
Method	92/69/EEC, C.4-C		
Source	ECHA		
11	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	33704-61-9	251-649-3
Value		0	%
Duration		28	day(s)
Method	OECD 301 C		
Source	ECHA		
Evaluation	not readily biodegradable		
12	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
Source	ECHA / weight of evidence		
Evaluation/classification	Not readily biodegradable		

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)

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No	Substance name	CAS no.	EC no.
1	1-[(2-tert-butyl)cyclohexyloxy]-2-butanol	139504-68-0	412-300-2
BCF		173	
Method	OECD 305 C		
Source	ECHA		
2	2,6-dimethyloct-7-en-2-ol	18479-58-8	242-362-4
BCF		64,8	
Method	QSAR		
Source	ECHA		
3	vinyl acetate	108-05-4	203-545-4
BCF		3,16	
Method	Calculation model used (Q)SAR		
Source	ECHA		
4	neryl-acetate	141-12-8	205-459-2
BCF		454	
Method	QSAR		
Source	ECHA		
5	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	33704-61-9	251-649-3
BCF		81 - 140	
Species	Cyprinus carpio		
Method	OECD 305		
Source	ECHA		
6	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
BCF		1,277	
Source	ECHA / weight of evidence		

Partition coefficient n-octanol/water (log value)

No	Substance name	CAS no.	EC no.
1	2,6-dimethyloct-7-en-2-ol	18479-58-8	242-362-4
log Pow		3,25	
Reference temperature		40	°C
Method	OECD 117		
Source	ECHA		
2	7-hydroxycitronellal	107-75-5	203-518-7
log Pow		1,68	
Reference temperature		25	°C
Method	OECD 107		
Source	ECHA		
3	Coumarin	91-64-5	202-086-7
log Pow		1,39	
Reference temperature		25	°C
Method	QSAR		
Source	ECHA		
4	3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	233-732-6
log Pow		3,3	
Reference temperature		20	°C
Method	OECD 107		
Source	ECHA		
5	Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene	144020-22-4	482-330-9
log Pow		5,3 - 5,8	
Method	OECD 117		
Source	ECHA		
6	pentadecan-15-olide	106-02-5	203-354-6
log Pow		5,79	
Reference temperature		25	°C
with reference to	pH 6.7		
Method	OECD 123		
Source	ECHA		
7	vinyl acetate	108-05-4	203-545-4

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log Pow		0,73	
Reference temperature		25	°C
Source	ECHA		
8	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
log Pow		5,522	
Reference temperature		25	°C
Method	OECD 123		
Source	ECHA		
9	neryl-acetate	141-12-8	205-459-2
log Pow		3,98	
Reference temperature		37	°C
Method	OECD 117		
Source	ECHA		
10	citral	5392-40-5	226-394-6
log Pow		2,76	
Reference temperature		25	°C
Method	OECD 107		
Source	ECHA		
11	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
log Pow		4,362	
12	1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	33704-61-9	251-649-3
log Pow		4,2	
Reference temperature		20	°C
Method	OECD 107		
Source	ECHA		
13	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
log Pow	~	5,1	
Source	ECHA / weight of evidence		

12.4 Mobility in soil

Mobility in soil			
No	Substance name	CAS no.	EC no.
1	vinyl acetate	108-05-4	203-545-4
log Koc		1,38	
Method	QSAR		
Source	ECHA		

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
Product Name	
LINARI-CIELO Car Fragrance	
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**

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GER**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.

Packaging

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 UN number or ID number**

ADR/RID/ADN	UN3077
IMDG	UN3077
ICAO-TI / IATA	UN3077

14.2 UN proper shipping name

ADR/RID/ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Technical name	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1 one 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran

IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Technical name	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1 one 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran

ICAO-TI / IATA	Environmentally hazardous substance, solid, n.o.s.
Technical name	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1 one 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran

14.3 Transport hazard class(es)

ADR/RID/ADN - Class	9
Label	9
Classification code	M7
Tunnel restriction code	-
Hazard identification no.	90

IMDG - Class	9
Label	9

ICAO-TI / IATA - Class	9
Label	9

14.4 Packing group

ADR/RID/ADN	III
IMDG	III
ICAO-TI / IATA	III

14.5 Environmental hazards

ADR/RID/ADN	Symbol "fish and tree"
IMDG	Symbol "fish and tree"
EmS	F-A, S-F
ICAO-TI / IATA	Symbol "fish and tree"

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**

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Region:
GER**EU regulations****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

The product contains following substance(s) meeting the criteria in Article 57 in association with Article 59 of the REACH regulation ((EC) 1907/2006) that are placed on the list of candidates considered for inclusion in annex XIV (substances subject to Authorisation).

No	Substance name	CAS no.	EC no.
1	2-(4-tert-butylbenzyl) propionaldehyde	80-54-6	201-289-8

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 contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5	75
2	(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	75
3	2-(4-tert-butylbenzyl) propionaldehyde	80-54-6	201-289-8	30, 75
4	4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	31906-04-4	250-863-4	75
5	alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0	214-881-6	75
6	citral	5392-40-5	226-394-6	75
7	geraniol	106-24-1	203-377-1	75
8	linalool	78-70-6	201-134-4	75
9	vinyl acetate	108-05-4	203-545-4	75

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

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.

National regulations**Water Hazard Class (Germany)**

Class 2
Source Classification according to AwSV (Regulation on facilities for handling substances that are hazardous to water).

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:**

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)

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.

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H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
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.
H412	Harmful to aquatic life with long lasting effects.

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.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

D Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

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.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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