

Trade name: LINARI-OCEANO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 15.10.2024**Region:**
GER**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****LINARI-OCEANO Car Fragrance****UFI:****RXG9-K1YV-J00E-Y4FM****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
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21109 Hamburg
Germany

Telephone no. +49 40-7566850

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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 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:

(R)-p-mentha-1,8-diene

linalyl acetate

Trade name: LINARI-OCEANO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 15.10.2024**Region:**
GERlinalool
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde**Hazard statement(s)**H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.**Hazard statements (EU)**

EUH208 Contains pin-2(10)-ene, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, 2-(4-tert-butylbenzyl) propionaldehyde, 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, dodecanal, Citronellol, caryophyllene, pin-2(3)-ene, (E)-3-methyl-5-cyclopentadecen-1-one, neryl-acetate, Coumarin, citral, 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, (S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one, 3-(p-cumenyl)-2-methylpropionaldehyde. 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:**

RXG9-K1YV-J00E-Y4FM

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	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)			
	63500-71-0 405-040-6 603-101-00-3 01-2119455547-30	Eye Irrit. 2; H319	< 2,50	wt%
2	(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%
3	linalyl acetate			

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

	115-95-7 204-116-4 - -	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	< 2,50	wt%
4	6,6-dimethoxy-2,5,5-trimethylhex-2-ene			
	67674-46-8 266-885-2 - 01-2120741268-52	Aquatic Chronic 3; H412 Skin Irrit. 2; H315	< 2,50	wt%
5	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%
6	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%
7	pin-2(10)-ene			
	127-91-3 204-872-5 - -	Aquatic Acute 1; H400 Asp. Tox. 1; H304 Flam. Liq. 3; H226 Skin Sens. 1B; H317 Aquatic Chronic 1; H410 Skin Irrit. 2; H315	< 2,50	wt%
8	p-mentha-1,4-diene			
	99-85-4 202-794-6 - -	Flam. Liq. 3; H226 Repr. 2; H361 Aquatic Chronic 2; H411	< 2,50	wt%
9	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			
	54464-57-2 259-174-3 - -	Aquatic Chronic 1; H410 Skin Sens. 1B; H317 Skin Irrit. 2; H315	< 2,50	wt%
10	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%
11	2-(4-tert-butylbenzyl) propionaldehyde			
	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%
12	allyl-hexanoate			
	123-68-2 204-642-4 - -	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	< 0,50	wt%
13	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	< 0,50	wt%

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

14	allyl-hexanoate			
	123-68-2 204-642-4 - 01-2119983573-26	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	< 0,50	wt%
15	4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde			
	31906-04-4 250-863-4 605-040-00-8 -	Skin Sens. 1A; H317	< 0,50	wt%
16	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%
17	Citronellol			
	106-22-9 203-375-0 - -	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 0,50	wt%
18	caryophyllene			
	87-44-5 201-746-1 - -	Asp. Tox. 1; H304 Skin Sens. 1B; H317	< 0,50	wt%
19	pin-2(3)-ene			
	80-56-8 201-291-9 - -	Flam. Liq. 3; H226 Acute Tox. 4; H302 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,50	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	neryl-acetate			
	141-12-8 205-459-2 - 01-2120748334-54	Skin Sens. 1B; H317	< 0,50	wt%
22	Coumarin			
	91-64-5 202-086-7 - -	Acute Tox. 4; H302 Skin Sens. 1B; H317	< 0,50	wt%
23	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%
24	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	< 0,50	wt%
25	(S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one			

Trade name: LINARI-OCEANO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 15.10.2024**Region:**
GER

	2244-16-8 218-827-2 606-148-00-8 -	Skin Sens. 1; H317	< 0,50	wt%
26	3-(p-cumenyl)-2-methylpropionaldehyde			
	6658-48-6 229-695-0 - 01-2120770116-58	Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 0,50	wt%
27	2,6-di-tert-butyl-p-cresol			
	128-37-0 204-881-4 - 01-2119555270-46	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,50	wt%

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

(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)
2	-	-	M = 1	-
10	D	-	-	-

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
8	H361 inhalational; -; -

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
14	218 mg/kg bodyweight	821 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 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

Trade name: LINARI-OCEANO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 15.10.2024**Region:**
GER**5.1 Extinguishing media****Suitable extinguishing media**Alcohol resistant foam, CO₂, powders, water spray**Unsuitable extinguishing media**

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)

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

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	

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

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)			63500-71-0 405-040-6
	dermal	Long term (chronic)	systemic	41,7 mg/kg bw/day
	inhalative	Long term (chronic)	systemic	44,1 mg/m ³
2	6,6-dimethoxy-2,5,5-trimethylhex-2-ene			67674-46-8 266-885-2
	dermal	Long term (chronic)	systemic	4,1 mg/kg bw/day
	dermal	Short term (acut)	systemic	12,3 mg/kg bw/day
	dermal	Long term (chronic)	local	10,25 mg/cm ²
	dermal	Short term (acut)	local	30,75 mg/cm ²
	inhalative	Long term (chronic)	systemic	14,46 mg/m ³
	inhalative	Short term (acut)	systemic	43,37 mg/m ³
	inhalative	Long term (chronic)	local	36,14 mg/m ³
	inhalative	Short term (acut)	local	108,43 mg/m ³
3	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

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

4	allyl-hexanoate			123-68-2 204-642-4
	dermal	Long term (chronic)	systemic	4,3 mg/kg/day
	inhalative	Long term (chronic)	systemic	15 mg/m ³
5	dodecanal			112-54-9 203-983-6
	dermal	Long term (chronic)	systemic	14,1 mg/kg bw/day
	dermal	Long term (chronic)	local	0,57 µg/cm ²
	inhalative	Long term (chronic)	systemic	49,7 mg/m ³
6	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
7	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
8	3-(p-cumenyl)-2-methylpropionaldehyde			6658-48-6 229-695-0
	dermal	Long term (chronic)	systemic	0,75 mg/kg bw/day
	inhalative	Long term (chronic)	systemic	0,529 mg/m ³
9	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	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)			63500-71-0 405-040-6
	oral	Long term (chronic)	systemic	7,5 mg/kg bw/day
	dermal	Long term (chronic)	systemic	25 mg/kg bw/day
	inhalative	Long term (chronic)	systemic	13 mg/m ³
2	6,6-dimethoxy-2,5,5-trimethylhex-2-ene			67674-46-8 266-885-2
	oral	Long term (chronic)	systemic	2,05 mg/kg bw/day
	oral	Short term (acut)	systemic	6,15 mg/kg bw/day
	dermal	Long term (chronic)	systemic	2,05 mg/kg bw/day
	dermal	Short term (acut)	systemic	6,15 mg/kg bw/day
	dermal	Long term (chronic)	local	5,13 mg/cm ²
	dermal	Short term (acut)	local	15,38 mg/cm ²
	inhalative	Long term (chronic)	systemic	3,57 mg/m ³
	inhalative	Short term (acut)	systemic	10,7 mg/m ³
	inhalative	Long term (chronic)	local	8,91 mg/m ³
	inhalative	Short term (acut)	local	26,74 mg/m ³
3	allyl-hexanoate			123-68-2 204-642-4
	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
4	dodecanal			112-54-9 203-983-6
	oral	Long term (chronic)	systemic	7 mg/kg bw/day
	dermal	Long term (chronic)	systemic	7 mg/kg bw/day
	dermal	Long term (chronic)	local	0,28 µg/cm ²
	inhalative	Long term (chronic)	systemic	12,3 mg/m ³
5	neryl-acetate			141-12-8 205-459-2

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

	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
6	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
7	3-(p-cumenyl)-2-methylpropionaldehyde			6658-48-6 229-695-0	
	oral	Long term (chronic)	systemic	8,93	µg/kg bw/day
	dermal	Long term (chronic)	systemic	89,3	µg/kg bw/day
	inhalative	Long term (chronic)	systemic	31,1	µg/m ³
8	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	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		63500-71-0 405-040-6
	water	fresh water	0,094 mg/L
	water	marine water	0,009 mg/L
	water	fresh water sediment	0,412 mg/kg dry weight
	water	marine water sediment	0,041 mg/kg dry weight
	soil	-	0,09 mg/kg dry weight
	sewage treatment plant	-	10 mg/L
2	6,6-dimethoxy-2,5,5-trimethylhex-2-ene		67674-46-8 266-885-2
	water	fresh water	13 µg/L
	water	marine water	1,3 µg/L
	water	fresh water sediment	1,48 mg/kg dry weight
	water	marine water sediment	0,148 mg/kg dry weight
	soil	-	0,288 mg/kg dry weight
	sewage treatment plant	-	10 mg/L
3	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
4	allyl-hexanoate		123-68-2 204-642-4
	water	fresh water	5,09 µg/L
	water	marine water	0,509 µg/L
	water	fresh water sediment	0,194 mg/kg dry weight

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

	water	marine water sediment	0,019	mg/kg dry weight
	soil	-	0,036	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
5	dodecanal		112-54-9 203-983-6	
	water	fresh water	0,004	mg/L
	water	marine water	0	mg/L
	water	fresh water sediment	1,41	mg/kg dry weight
	water	marine water sediment	0,141	mg/kg dry weight
	soil	-	0,278	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	313	mg/kg food
6	(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
7	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
8	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
9	3-(p-cumenyl)-2-methylpropionaldehyde		6658-48-6 229-695-0	
	water	fresh water	1,44	µg/L
	water	marine water	0,144	µg/L
	soil	-	45,8	µg/kg dry weight
	sewage treatment plant	-	10	mg/L

Trade name: LINARI-OCEANO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 15.10.2024**Region:**
GER

10	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	
No data available	
pH value	
reason for missing pH	substance/mixture is non-soluble (in water)
Boiling point / boiling range	
No data available	
Melting point/freezing point	
No data available	

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

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	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6
	log Pow	appr.	1,65
	Reference temperature		23 °C
	with reference to	pH: > 6.09 - < 6.74	
	Method	EU Method A.8	
	Source	ECHA	
2	6,6-dimethoxy-2,5,5-trimethylhex-2-ene	67674-46-8	266-885-2
	log Pow		3,8
	Reference temperature		35 °C
	Method	OECD 117	
	Source	ECHA	
3	vinyl acetate	108-05-4	203-545-4
	log Pow		0,73
	Reference temperature		25 °C
	Source	ECHA	
4	allyl-hexanoate	123-68-2	204-642-4
	log Pow		3,191
	Reference temperature		20 °C
	Method	OECD 107	
	Source	ECHA	
5	dodecanal	112-54-9	203-983-6
	log Pow		4,9
	Reference temperature		35 °C
	Method	OECD 117	
	Source	ECHA	
6	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
	log Pow		5,522
	Reference temperature		25 °C
	Method	OECD 123	

Trade name: LINARI-OCEANO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 15.10.2024**Region:**
GER

Source	ECHA		
7 neryl-acetate		141-12-8	205-459-2
log Pow		3,98	
Reference temperature		37	°C
Method	OECD 117		
Source	ECHA		
8 citral		5392-40-5	226-394-6
log Pow		2,76	
Reference temperature		25	°C
Method	OECD 107		
Source	ECHA		
9 3-(p-cumenyl)-2-methylpropionaldehyde		6658-48-6	229-695-0
log Pow		3,8	
Reference temperature		35	°C
with reference to	pH 7		
Method	OECD 117		
Source	ECHA		
10 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.

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-OCEANO 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).

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	supplier		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	allyl-hexanoate	123-68-2	204-642-4
LD50	>	218	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		
3	dodecanal	112-54-9	203-983-6
LD50	>	23100	mg/kg bodyweight
Species	rat		
Source	ECHA		
4	(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		
5	neryl-acetate	141-12-8	205-459-2
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
6	citral	5392-40-5	226-394-6
LD50	appr.	6800	mg/kg bodyweight
Species	rat		
Method	BASF-Test		
Source	ECHA		
7	3-(p-cumenyl)-2-methylpropionaldehyde	6658-48-6	229-695-0
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
8	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 (result of the ATE calculation for the mixture)

Product Name

LINARI-OCEANO 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 dermal > 2000 mg/kg).

Acute dermal toxicity

No	Substance name	CAS no.	EC no.
1	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6
LD50	>	2000	mg/kg bodyweight
Species	rabbit		

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

Method	OECD 402
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
2	vinyl acetate 108-05-4 203-545-4
LD50	7440 mg/kg bodyweight
Species	rabbit
Source	ECHA
3	allyl-hexanoate 123-68-2 204-642-4
LD50	820 mg/kg bodyweight
Species	rabbit
Method	OECD 402
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are met.
4	dodecanal 112-54-9 203-983-6
LD50	> 2000 mg/kg bodyweight
Species	rabbit
Source	ECHA
5	(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
6	neryl-acetate 141-12-8 205-459-2
LD50	> 5000 mg/kg bodyweight
Species	rabbit
Method	Pre-guideline, Non-GLP
Source	ECHA
7	citral 5392-40-5 226-394-6
LD50	> 2000 mg/kg bodyweight
Species	rabbit
Method	BASF-Test
Source	ECHA
8	3-(p-cumenyl)-2-methylpropionaldehyde 6658-48-6 229-695-0
LD50	> 5000 mg/kg bodyweight
Species	rabbit
Method	OECD 402
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
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 (result of the ATE calculation for the mixture)**Product Name**

LINARI-OCEANO 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 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	vinyl acetate	108-05-4	203-545-4
ATE		10	20 mg/l
Duration of exposure			4 h
State of aggregation	Vapour		
Species	rat		

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

Source	1272/2008/EC, Annex VI		
2	3-(p-cumenyl)-2-methylpropionaldehyde	6658-48-6	229-695-0
LC50	>	5,14	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 436		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6
Duration of exposure		4	h
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	6,6-dimethoxy-2,5,5-trimethylhex-2-ene	67674-46-8	266-885-2
Duration of exposure		4	h
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
3	vinyl acetate	108-05-4	203-545-4
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
4	allyl-hexanoate	123-68-2	204-642-4
Duration of exposure		15	min
Species	Human Skin Model		
Method	OECD		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
5	dodecanal	112-54-9	203-983-6
Species	rabbit		
Source	ECHA		
Evaluation	irritant		
6	(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.		
7	neryl-acetate	141-12-8	205-459-2
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		
8	citral	5392-40-5	226-394-6
Source	ECHA		
Evaluation	irritant		
9	3-(p-cumenyl)-2-methylpropionaldehyde	6658-48-6	229-695-0
Species	Human		
Method	OECD 439		
Source	ECHA		
Evaluation	irritant		
10	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
Species	rabbit		

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

Method	Draize method		
Source	ECHA		
Evaluation	non-irritant		
Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
2	6,6-dimethoxy-2,5,5-trimethylhex-2-ene	67674-46-8	266-885-2
Duration of exposure	24	h	
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	vinyl acetate	108-05-4	203-545-4
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
4	allyl-hexanoate	123-68-2	204-642-4
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
5	dodecanal	112-54-9	203-983-6
Species	rabbit		
Method	Draize method		
Source	ECHA		
Evaluation	Irritating to eyes		
6	(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.		
7	neryl-acetate	141-12-8	205-459-2
Species	Human		
Method	OECD 492		
Source	ECHA		
Evaluation	non-irritant		
8	citral	5392-40-5	226-394-6
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
9	3-(p-cumenyl)-2-methylpropionaldehyde	6658-48-6	229-695-0
Species	cattle		
Method	OECD 437		
Source	ECHA		
Evaluation	non-irritant		
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
Species	rabbit		
Method	Draize method		
Source	ECHA		
Evaluation	non-irritant		

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	6,6-dimethoxy-2,5,5-trimethylhex-2-ene	67674-46-8	266-885-2
Route of exposure		Skin	
Species		guinea pig	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	vinyl acetate	108-05-4	203-545-4
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		non-sensitizing	
4	allyl-hexanoate	123-68-2	204-642-4
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
Evaluation/classification		Based on available data, the classification criteria are not met.	
5	dodecanal	112-54-9	203-983-6
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		sensitizing	
6	neryl-acetate	141-12-8	205-459-2
Route of exposure		Skin	
Method		QSAR	
Source		ECHA	
Evaluation		sensitizing	
7	citral	5392-40-5	226-394-6
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		sensitizing	
8	3-(p-cumenyl)-2-methylpropionaldehyde	6658-48-6	229-695-0
Route of exposure		Skin	
Species		mouse	
Method		OECD 406	
Source		ECHA	
Evaluation		sensitizing	
9	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	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6
Type of examination		in vitro gene mutation study in bacteria	

Trade name: LINARI-OCEANO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 15.10.2024**Region:**
GER

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.		
Type of examination	in vitro chromosome aberration test		
Species	lymphocytes		
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	Chinese hamster lung (CHL)		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	oral		
Type of examination	In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus		
Species	mouse		
Method	OECD 474		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	vinyl acetate	108-05-4	203-545-4
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	allyl-hexanoate	123-68-2	204-642-4
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typh. TA98, TA100, TA1535, TA1537, TA1538		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	(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.		
5	citral	5392-40-5	226-394-6
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
6	3-(p-cumenyl)-2-methylpropionaldehyde	6658-48-6	229-695-0
Type of examination	in vitro gene mutation study in mammalian cells		
Species	mouse lymphoma cells		
Method	OECD 490		
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.		
Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6
Route of exposure	oral		
NOAEL	10 mg/kg bw/d		
Type of examination	extended one-generation reproductive toxicity - basic test design (Cohorts 1A, and 1B without extension)		
Species	rat		
Method	OECD 443		
Source	ECHA		

Trade name: LINARI-OCEANO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 15.10.2024**Region:**
GER

Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	dermal		
NOAEL	1000	mg/kg bw/d	
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.		
2	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.		
3	allyl-hexanoate	123-68-2	204-642-4
Route of exposure	oral		
Type of examination	Reproduction/Developmental Toxicity Screening Test		
Species	rat		
Method	OECD 421		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	(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		
5	citral	5392-40-5	226-394-6
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
6	3-(p-cumenyl)-2-methylpropionaldehyde	6658-48-6	229-695-0
Method	OECD 421		
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	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6
Route of exposure	oral		
NOAEL	125	mg/kg bw/d	

Trade name: LINARI-OCEANO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 15.10.2024**Region:**
GER

Duration of exposure	28	day(s)
Species	rat	
Method	OECD 407	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
Route of exposure	dermal	
NOAEL	1000	mg/kg bw/d
Species	rat	
Method	OECD 411	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
2 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.	
3 allyl-hexanoate	123-68-2	204-642-4
Route of exposure	oral	
Duration of exposure	52	week/s
Species	rat	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
4 dodecanal	112-54-9	203-983-6
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.	
5 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.	
6 3-(p-cumenyl)-2-methylpropionaldehyde	6658-48-6	229-695-0
Method	OECD 410	
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
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

Trade name: LINARI-OCEANO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 15.10.2024**Region:**
GER**Other information**
No data available.**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6
LC50		354	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	6,6-dimethoxy-2,5,5-trimethylhex-2-ene	67674-46-8	266-885-2
LC50		22	mg/l
Duration of exposure		96	h
Species	Cyprinus carpio		
Method	OECD 203		
Source	ECHA		
3	allyl-hexanoate	123-68-2	204-642-4
LC50		0,117	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		
4	dodecanal	112-54-9	203-983-6
LC50	appr.	2,6	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
5	(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		
6	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		
7	3-(p-cumenyl)-2-methylpropionaldehyde	6658-48-6	229-695-0
LC50		11,3	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		
8	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		
Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

1	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		
2	(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		
3	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	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6
EC50	appr.	320	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	6,6-dimethoxy-2,5,5-trimethylhex-2-ene	67674-46-8	266-885-2
EC50		50,7	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
3	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		
4	allyl-hexanoate	123-68-2	204-642-4
EC50		2	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EU Method C.2		
Source	ECHA		
5	dodecanal	112-54-9	203-983-6
EC50	>	0,27	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
6	(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		
7	neryl-acetate	141-12-8	205-459-2
EC50		9,97	mg/l

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	
8	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	
9	3-(p-cumenyl)-2-methylpropionaldehyde	6658-48-6 229-695-0
EC50	4,71	mg/l
Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	
10	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	(E)-3-methyl-5-cyclopentadecen-1-one	82356-51-2	429-900-5
NOEC		155	µg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
2	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	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6
EC50		>	100 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.		
2	6,6-dimethoxy-2,5,5-trimethylhex-2-ene	67674-46-8	266-885-2
EC50		13	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
3	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		
4	allyl-hexanoate	123-68-2	204-642-4
EC50		>	4,6 mg/l

Trade name: LINARI-OCEANO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 15.10.2024**Region:**
GER

Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
5	dodecanal	112-54-9	203-983-6
EC50	>	0,048	mg/l
Duration of exposure		72	h
Species	Raphidocelis 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	3-(p-cumenyl)-2-methylpropionaldehyde	6658-48-6	229-695-0
EC50		1,44	mg/l
Duration of exposure		72	h
Species	Raphidocelis subcapitata		
Method	OECD 201		
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	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6
EC50	>	1000	mg/l
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
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	Tetrahymena pyriformis (Protozoa)		
Source	ECHA / weight of evidence		

12.2 Persistence and degradability**Biodegradability**

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

No	Substance name	CAS no.	EC no.
1	6,6-dimethoxy-2,5,5-trimethylhex-2-ene	67674-46-8	266-885-2
Type		aerobic biodegradation	
Value		-3	%
Method		OECD 301 F	
Source		ECHA	
Evaluation		not readily biodegradable	
2	vinyl acetate	108-05-4	203-545-4
Type		BOD	
Value		90	%
Duration		14	d
Method		OECD 301 C	
Source		ECHA	
Evaluation		readily biodegradable	
3	allyl-hexanoate	123-68-2	204-642-4
Type		aerobic biodegradation	
Value		70	%
Duration		28	d
Method		OECD 301 F	
Source		ECHA	
Evaluation		readily degradable	
4	dodecanal	112-54-9	203-983-6
Value		73	%
Duration		28	day(s)
Method		OECD 301 F	
Source		ECHA	
Evaluation		readily biodegradable	
5	(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	
6	neryl-acetate	141-12-8	205-459-2
Value		90	%
Duration		28	day(s)
Method		OECD 301 D	
Source		ECHA	
Evaluation		readily biodegradable	
7	citral	5392-40-5	226-394-6
Type		BSB	
Value		> 90	%
Duration		28	day(s)
Method		92/69/EEC, C.4-C	
Source		ECHA	
8	3-(p-cumenyl)-2-methylpropionaldehyde	6658-48-6	229-695-0
Type		aerobic biodegradation	
Value		76	%
Duration		28	day(s)
Method		OECD 301 F	
Source		ECHA	
Evaluation		readily biodegradable	
9	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)			
No	Substance name	CAS no.	EC no.
1	vinyl acetate	108-05-4	203-545-4

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

BCF			3,16
Method		Calculation model used (Q)SAR	
Source		ECHA	
2	dodecanal	112-54-9	203-983-6
BCF			711
Method		QSAR	
Source		ECHA	
3	neryl-acetate	141-12-8	205-459-2
BCF			454
Method		QSAR	
Source		ECHA	
4	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	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6
log Pow		appr.	1,65
Reference temperature			23 °C
with reference to		pH: > 6.09 - < 6.74	
Method		EU Method A.8	
Source		ECHA	
2	6,6-dimethoxy-2,5,5-trimethylhex-2-ene	67674-46-8	266-885-2
log Pow			3,8
Reference temperature			35 °C
Method		OECD 117	
Source		ECHA	
3	vinyl acetate	108-05-4	203-545-4
log Pow			0,73
Reference temperature			25 °C
Source		ECHA	
4	allyl-hexanoate	123-68-2	204-642-4
log Pow			3,191
Reference temperature			20 °C
Method		OECD 107	
Source		ECHA	
5	dodecanal	112-54-9	203-983-6
log Pow			4,9
Reference temperature			35 °C
Method		OECD 117	
Source		ECHA	
6	(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	
7	neryl-acetate	141-12-8	205-459-2
log Pow			3,98
Reference temperature			37 °C
Method		OECD 117	
Source		ECHA	
8	citral	5392-40-5	226-394-6
log Pow			2,76
Reference temperature			25 °C
Method		OECD 107	
Source		ECHA	
9	3-(p-cumenyl)-2-methylpropionaldehyde	6658-48-6	229-695-0
log Pow			3,8
Reference temperature			35 °C

Trade name: LINARI-OCEANO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 15.10.2024**Region:**
GER

with reference to Method Source	pH 7 OECD 117 ECHA		
10	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
log Pow Source	~	5,1	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 Method Source	QSAR ECHA	1,38	

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
Product Name	
LINARI-OCEANO 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****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	(R)-p-mentha-1,8-diene 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	(R)-p-mentha-1,8-diene

Trade name: LINARI-OCEANO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 15.10.2024**Region:**
GER

ICAO-TI / IATA
Technical name

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran
Environmentally hazardous substance, solid, n.o.s.
(R)-p-mentha-1,8-diene
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****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	(S)-2-methyl-5-(1-methylvinyl)cyclohex-2-en-1-one	2244-16-8	218-827-2	75
4	2-(4-tert-butylbenzyl) propionaldehyde	80-54-6	201-289-8	30, 75
5	4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	31906-04-4	250-863-4	75

Trade name: LINARI-OCEANO Car Fragrance**Current version:** 2.0.0, Revision: 11.03.2026**Replaced version:** 1.0.0, Revision: 15.10.2024**Region:**
GER

6	citral	5392-40-5	226-394-6	75
7	linalool	78-70-6	201-134-4	75
8	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6	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.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.

Trade name: LINARI-OCEANO Car Fragrance

Current version: 2.0.0, Revision: 11.03.2026

Replaced version: 1.0.0, Revision: 15.10.2024

Region:
GER

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.

This document is an English translation of the legally compliant safety data sheet of the region Germany. This document, including UFI and emergency telephone number, may only be used for placing on the market in the region Germany.

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