

Trade name: LINARI-AVORIO**Current version:** 5.0.0, Revision: 22.01.2026**Replaced version:** 4.1.1, Revision: 04.06.2024**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****LINARI-AVORIO****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Fragrances

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**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 3; H412

Eye Irrit. 2; H319

Flam. Liq. 3; H226

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**

GHS02



GHS07

Signal word

Warning

Hazard statement(s)

H226

Flammable liquid and vapour.

H319

Causes serious eye irritation.

H412

Harmful to aquatic life with long lasting effects.

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

Hazard statements (EU)

EUH208

Contains linalool, 7-hydroxycitronellal, linalyl acetate, 3,7-dimethylnona-1,6-dien-3-ol, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1 one, Benzyl salicylate, alpha-methyl-1,3-benzodioxole-5-propionaldehyde, 1,5-dimethyl-1-vinylhept-4-enyl acetate. 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.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P501

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

2.3 Other hazards

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	ethanol		
	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 70.00 - < 90.00 wt%
2	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%
3	7-hydroxycitronellal		
	107-75-5 203-518-7 - 01-2119973482-31	Eye Irrit. 2; H319 Skin Sens. 1B; H317	< 2.50 wt%
4	linalyl acetate		
	115-95-7 204-116-4 - -	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	< 2.50 wt%
5	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%

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

6	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	< 0.50	wt%
7	Benzyl salicylate		pls. refer to footnote (1)	
	118-58-1 204-262-9 607-754-00-5 -	Skin Sens. 1B; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	< 0.50	wt%
8	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%
9	alpha-methyl-1,3-benzodioxole-5-propionaldehyde			
	1205-17-0 214-881-6 - -	Aquatic Chronic 2; H411 Skin Sens. 1B; H317 Repr. 2; H361	< 0.50	wt%
10	1,5-dimethyl-1-vinylhept-4-enyl acetate			
	61931-80-4 263-336-9 - -	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	< 0.50	wt%
11	(Z)-3-hexenyl salicylate			
	65405-77-8 265-745-8 - 01-2119987320-37	Aquatic Acute 1; H400	< 0.50	wt%
12	Oxacycloheptadec-10-en-2-one			
	28645-51-4 249-120-7 - -	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.

(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.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	Eye Irrit. 2; H319: C \geq 50%	-	-
11	-	-	M = 1	-
12	-	-	M = 10	M = 10

No	Route, target organ, concrete effect
9	H361 inhalational; -; -

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. If unconscious place in recovery position and seek medical advice.

After skin contact

In case of contact with skin wash off immediately with soap and water. Remove contaminated clothing. Consult a doctor if skin irritation persists.

Trade name: LINARI-AVORIO**Current version:** 5.0.0, Revision: 22.01.2026**Replaced version:** 4.1.1, Revision: 04.06.2024**Region:** GB**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. If swallowed drink plenty of water and seek medical treatment. 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**5.1 Extinguishing media****Suitable extinguishing media**

Foam; Extinguishing powder; Carbon dioxide; Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

Formation of explosive mixtures with air is possible. Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back. In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Exclude sources of ignition and ventilate the area. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in sections 7 and 8.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). 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

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from food, drink and animal feeding stuffs. After worktime and during work intervals the affected skin areas must be thoroughly cleaned. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Provide eye wash fountain in work area. Have emergency shower available.

Advice on protection against fire and explosion

Trade name: LINARI-AVORIO**Current version:** 5.0.0, Revision: 22.01.2026**Replaced version:** 4.1.1, Revision: 04.06.2024**Region:** GB

Keep away from sources of heat and ignition. Take precautionary measures against static charges.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

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

Requirements for storage rooms and vessels

Store product in closed containers. Always keep in containers of same material as the original.

Incompatible products

Do not store together with fire promoting substances.

7.3 Specific end use(s)

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	ethanol	64-17-5	200-578-6
List of approved workplace exposure limits (WELs) / EH40			
Ethanol			
	WEL long-term (8-hr TWA reference period)	1920	mg/m ³ 1000 ppm
2	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
List of approved workplace exposure limits (WELs) / EH40			
2,6-Ditertiary-butyl-para-cresol			
	WEL long-term (8-hr TWA reference period)	10	mg/m ³

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

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	ethanol	64-17-5 200-578-6		
	dermal	Long term (chronic)	systemic	8238 mg/kg/day
	inhalative	Long term (chronic)	systemic	380 mg/m ³
2	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
3	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
4	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
5	(Z)-3-hexenyl salicylate	65405-77-8 265-745-8		
	dermal	Long term (chronic)	systemic	0.9 mg/kg bw/day
	inhalative	Long term (chronic)	systemic	1.59 mg/m ³

DNEL value (consumer)

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	ethanol			64-17-5 200-578-6	
	inhalative	Long term (chronic)	systemic	114	mg/m ³
2	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 (acute)	local	500	µg/cm ²
	inhalative	Long term (chronic)	systemic	2.1	mg/m ³
3	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 (acute)	systemic	1.3	mg/kg/day
	dermal	Long term (chronic)	systemic	1.4	mg/kg/day
	dermal	Short term (acute)	systemic	2.7	mg/kg/day
	dermal	Long term (chronic)	local	1.6	mg/cm ²
	dermal	Short term (acute)	local	1.6	mg/cm ²
	inhalative	Long term (chronic)	systemic	0.74	mg/m ³
	inhalative	Short term (acute)	systemic	4.4	mg/m ³
	4	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
5	(Z)-3-hexenyl salicylate			65405-77-8 265-745-8	
	oral	Long term (chronic)	systemic	0.23	mg/kg bw/day
	dermal	Long term (chronic)	systemic	0.45	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	0.39	mg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	ethanol		64-17-5 200-578-6	
	water	fresh water	0.96	mg/L
	water	marine water	0.79	mg/L
	water	fresh water sediment	3.6	mg/kg dry weight
	water	marine water sediment	2.9	mg/L
	soil	-	0.63	mg/kg dry weight
	sewage treatment plant	-	580	mg/L
	secondary poisoning with reference to: food	-	0.38	g/kg
2	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
3	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

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

	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			
4	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
5	(Z)-3-hexenyl salicylate		65405-77-8 265-745-8	
	water	fresh water	0.61	µg/L
	water	marine water	0.061	µg/L
	water	fresh water sediment	0.11	mg/kg dry weight
	water	marine water sediment	0.011	mg/kg dry weight
	soil	-	0.022	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	40	mg/kg
	with reference to: food			

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, local exhaust at the work station if necessary.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. Combination filter (EN 14387), filter type A - brown; In case of aerosol, vapour and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

In case of intensive contact, wear protective gloves (EN 374). 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.

Appropriate Material	butyl rubber		
Material thickness		0.5	mm
Breakthrough time	>	480	min

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

9.1 Information on basic physical and chemical properties

State of aggregation	
liquid	
Form	
liquid	
Colour	
light yellow	
Odour	
perfumed-like	
pH value	
Value	5.4
Boiling point / boiling range	
Value	78 °C
Reference substance	Ethanol
Melting point/freezing point	
Value	-114 °C
Reference substance	Ethanol
Decomposition temperature	
No data available	
Flash point	
Value	27 °C
Method	Pensky-Martens closed cup
Ignition temperature	
No data available	
Auto-ignition temperature	
Value	425 °C
Reference substance	Ethanol
Explosive properties	
The product is not explosive. Formation of explosive/highly flammable air-vapour mixtures is possible during/after use.	
Flammability	
No data available	
Lower explosion limit	
Value	3.5 % vol
Reference substance	Ethanol
Upper explosion limit	
Value	15 % vol
Reference substance	Ethanol
Vapour pressure	
Value	57 mbar
Reference temperature	20 °C
Reference substance	Ethanol
Relative vapour density	
Comments	Air = 1
Comments	Heavier than air.
Relative density	
No data available	
Density	
No data available	

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
log Pow		-0.35	
Reference temperature		24	°C
with reference to		pH 7,4	
Method		OECD 107	
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	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	
4	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
log Pow		~	5.1
Source		ECHA / weight of evidence	
5	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
log Pow		4.8	
Reference temperature		25	°C
Method		OECD 117	
Source		ECHA	
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. Generation of flammable vapor-air mixtures possible.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Static discharges.

10.5 Incompatible materials

Reactions with strong oxidising agents. Reactions with strong acids. Alkali metals; Halogenated compounds

10.6 Hazardous decomposition products

None, if handled according to intended use.

SECTION 11: Toxicological information

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

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
LD50		10470	mg/kg bodyweight
Species	rat		
with reference to	95% ethanol in water		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	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.		
3	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		
4	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		
5	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
LD50		3031	mg/kg bodyweight
Species	rat (female)		
Method	EU Method B.1		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	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.		
2	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		
3	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		
4	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	EU Method B.3		
Source	ECHA		

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
LC50		124.7	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

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	ethanol	64-17-5	200-578-6
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
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	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		
4	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	ethanol	64-17-5	200-578-6
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
2	7-hydroxycitronellal	107-75-5	203-518-7
Species	rabbit		
Method	BASF-Test		
Source	ECHA		
Evaluation	non-irritant		
3	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		
4	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
Species	rabbit		
Method	Draize method		
Source	ECHA		
Evaluation	non-irritant		
5	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
Species	rabbit		
Method	EU B.5		
Source	ECHA		
Evaluation	non-irritant		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Route of exposure	respiratory tract		
Source	ECHA		
Evaluation	non-sensitizing		

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	Skin		
Species	mouse		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	7-hydroxycitronellal	107-75-5	203-518-7
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	sensitizing		
3	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		
4	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
Route of exposure	Skin		
Source	ECHA / Read across		
Evaluation	non-sensitizing		
5	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity

No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typhimurium		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	in vitro gene mutation study in mammalian cells		
Species	mouse lymphoma cells		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	Genotoxicity in vivo		
Species	mouse		
Method	OECD 478		
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	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.		
4	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.		
5	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
Method	OECD 476		

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Route of exposure		oral	
NOAEL			
Type of examination	2 generation study		
Species	mouse		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure		inhalational	
NOAEL		>=	20000 ppm
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	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	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	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.		
5	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
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
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	ethanol	64-17-5	200-578-6
Route of exposure		oral	
Duration of exposure		14	week/s
Species	rat		
Target organ	kidneys		
Method	OECD 408		
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 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

3	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.		
4	1,5-dimethyl-1-vinylhept-4-enyl acetate	61931-80-4	263-336-9
Route of exposure	oral		
NOAEL		1000	mg/kg bw/d
Species	rat		
Source	supplier		
Evaluation/classification	Based on available data, the classification criteria are not met.		
5	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
Route of exposure	oral		
Species	rat		
Method	OECD 422		
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**12.1 Toxicity**

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
LC50		14200	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	EPA		
Source	ECHA		
2	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.		
3	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		
4	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		
5	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

LC50	>	0.65	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	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	ethanol	64-17-5	200-578-6
EC50		5012	mg/l
Duration of exposure		48	h
Species	Ceriodaphnia dubia		
Method	ASTM Standard E 729-80		
Source	ECHA		
2	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.		
3	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		
4	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		
5	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
EC50		0.6	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	ethanol	64-17-5	200-578-6
NOEC		9.6	mg/l
Duration of exposure		9	day(s)
Species	Daphnia magna		
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		

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
EC50		275	mg/l
Duration of exposure		72	h
Species	Chlorella vulgaris		
Method	OECD 201		
Source	ECHA		
2	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.		
3	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		
4	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		
5	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
EC50		0.61	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
1	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	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	ethanol	64-17-5	200-578-6
Type	aerobic biodegradation		
Value	appr.	84	%
Duration		20	day(s)
Source	ECHA		
Evaluation	readily biodegradable		
2	7-hydroxycitronellal	107-75-5	203-518-7
Type	aerobic biodegradation		

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

Value	80	-	90	%
Duration			28	day(s)
Method	OECD 301 F			
Source	ECHA			
Evaluation	readily biodegradable			
3	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			
4	2,6-di-tert-butyl-p-cresol	128-37-0		204-881-4
Source	ECHA / weight of evidence			
Evaluation/classification	Not readily biodegradable			
5	(Z)-3-hexenyl salicylate	65405-77-8		265-745-8
Type	aerobic biodegradation			
Value			89	%
Duration			28	day(s)
Method	OECD 301 F			
Source	ECHA			
Evaluation	readily biodegradable			

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	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	ethanol	64-17-5	200-578-6
log Pow			-0.35
Reference temperature			24 °C
with reference to	pH 7,4		
Method	OECD 107		
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	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		
4	2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4
log Pow			~ 5.1
Source	ECHA / weight of evidence		
5	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
log Pow			4.8
Reference temperature			25 °C
Method	OECD 117		
Source	ECHA		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment
Product Name

Trade name: LINARI-AVORIO**Current version:** 5.0.0, Revision: 22.01.2026**Replaced version:** 4.1.1, Revision: 04.06.2024**Region:** GB**LINARI-AVORIO**

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 product unmonitored into the environment.

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

In accordance with regulations for special waste, must be taken to a special waste disposal.

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	UN1266
IMDG	UN1266
ICAO-TI / IATA	UN1266

14.2 UN proper shipping name

ADR/RID/ADN	PERFUMERY PRODUCTS
IMDG	PERFUMERY PRODUCTS
ICAO-TI / IATA	Perfumery products

14.3 Transport hazard class(es)

ADR/RID/ADN - Class	3
Label	3
Classification code	F1
Tunnel restriction code	D/E
Hazard identification no.	30
IMDG - Class	3
Label	3
ICAO-TI / IATA - Class	3
Label	3

14.4 Packing group

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

14.5 Environmental hazards

EmS	F-E, S-D
-----	----------

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Trade name: LINARI-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

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

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

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

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3, 40

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	(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	75
2	alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0	214-881-6	75
3	Benzyl salicylate	118-58-1	204-262-9	75
4	geraniol	106-24-1	203-377-1	75
5	linalool	78-70-6	201-134-4	75
6	tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0	405-040-6	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: P5c

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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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-AVORIO

Current version: 5.0.0, Revision: 22.01.2026

Replaced version: 4.1.1, Revision: 04.06.2024

Region: GB

Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

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.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.
Prod-ID 677974