

Trade name: LINARI - ACQUA SANTA**Current version :** 2.0.0, issued: 04.06.2024**Replaced version:** 1.0.1, issued: 16.12.2022**Region:** IE**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****LINARI - ACQUA SANTA****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Perfumes, 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

+353 1 809 2166 (National Poisons Information Centre)

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

Eye Irrit. 2; H319

Flam. Liq. 2; H225

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**

GHS02



GHS07



GHS09

Signal word

Danger

Hazardous component(s) to be indicated on label:1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1 one
linalool

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

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

Trade name: LINARI - ACQUA SANTA**Current version :** 2.0.0, issued: 04.06.2024**Replaced version:** 1.0.1, issued: 16.12.2022**Region:** IE**Hazard statement(s)**

H225 Highly flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Hazard statements (EU)

EUH208 Contains geraniol, (R)-p-mentha-1,8-diene, linalyl acetate, pin-2(10)-ene, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one, Citronellol. May produce an allergic reaction.

Precautionary statement(s)

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378 In case of fire: Use sand, fire powder, carbon dioxide or foam to extinguish.
P391 Collect spillage.
P501 Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards

PBT assessment
No data available.

vPvB assessment
No data available.

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	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. 1; H317 Skin Irrit. 2; H315	< 5,00 wt%
3	OXACYCLOHEXADECEN-2-ONE		
	34902-57-3 422-320-3 606-092-00-4 -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 2,50 wt%
4	2-phenylethanol		
	60-12-8 200-456-2 - -	Acute Tox. 4; H302 Eye Irrit. 2; H319	< 2,50 wt%
5	linalool		

Trade name: LINARI - ACQUA SANTA

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

Region: IE

	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	A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol;trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol			
	- 405-040-6 603-101-00-3 01-0000015458-64	Eye Irrit. 2; H319	< 2,50	wt%
7	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%
8	(Z)-3-hexenyl salicylate			
	65405-77-8 265-745-8 - 01-2119987320-37	Aquatic Acute 1; H400	< 2,50	wt%
9	geraniol		pls. refer to footnote (1)	
	106-24-1 203-377-1 603-241-00-5 -	Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 2,50	wt%
10	(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	< 0,50	wt%
11	4-methyl-3-decen-5-ol			
	81782-77-6 279-815-0 - 01-2119983528-21	Aquatic Acute 1; H400 Aquatic Chronic 2; H411	< 0,50	wt%
12	linalyl acetate			
	115-95-7 204-116-4 - -	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	< 0,50	wt%
13	pin-2(10)-ene			
	127-91-3 204-872-5 - 01-2119519230-54	Aquatic Acute 1; H400 Asp. Tox. 1; H304 Flam. Liq. 3; H226 Skin Sens. 1B; H317 Aquatic Chronic 1; H410 Skin Irrit. 2; H315	< 0,50	wt%
14	3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one			
	127-51-5 204-846-3 - -	Aquatic Chronic 2; H411 Skin Sens. 1B; H317	< 0,50	wt%
15	Citronellol			
	106-22-9 203-375-0 - 01-2119453995-23	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 0,50	wt%
16	(E)-2-methoxy-4-(prop-1-enyl)phenol		pls. refer to footnote (2)	

Trade name: LINARI - ACQUA SANTA

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

Region: IE

5932-68-3 227-678-2 604-094-00-X 01-2120223682-61	Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Irrit. 2; H319 STOT SE 3; H335	< 0,10	wt%
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Full Text for all H-phrases and EUH-phrases: pls. see section 16

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

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	Eye Irrit. 2; H319: C $\geq$ 50%	-	-
8	-	-	M = 1	-
10	-	-	M = 1	-
11	-	-	-	M = 1
16	-	Skin Sens. 1A; H317: C $\geq$ 0,01%	-	-

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

Rinse with plenty of water. Wash skin thoroughly with soap and water or use recognised skin cleanser.

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). Get medical attention if pain still persists.

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

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 mixture

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

5.3 Advice for firefighters

Trade name: LINARI - ACQUA SANTA**Current version :** 2.0.0, issued: 04.06.2024**Replaced version:** 1.0.1, issued: 16.12.2022**Region:** IE

Use self-contained breathing apparatus. Wear protective clothing. Containers close to fire should be transferred to a safe place. Cool closed containers exposed to fire with water. 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. Keep away from ignition sources.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

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

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Isolate from sources of heat, sparks and open flame. Take precautionary measures against electrostatic loading (earthing necessary during loading operations). Use explosion-proof equipment/fittings and non-sparking tools.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

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

Requirements for storage rooms and vessels

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

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)			

Trade name: LINARI - ACQUA SANTA

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

Region: IE

Ethanol	
WEL short-term (15 min reference period)	1000 ppm

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/m³
2	A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol;trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol			- 405-040-6	
	dermal	Long term (chronic)	systemic	41,7	mg/kg/day
	inhalative	Long term (chronic)	systemic	44,1	mg/m³
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/cm²
	dermal	Short term (acut)	local	1,6	mg/cm²
	inhalative	Long term (chronic)	systemic	3	mg/m³
	inhalative	Short term (acut)	systemic	18	mg/m³
4	(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/m³
5	4-methyl-3-decen-5-ol			81782-77-6 279-815-0	
	dermal	Long term (chronic)	systemic	10	mg/kg bw/day
	dermal	Short term (acut)	systemic	10	mg/kg bw/day
	dermal	Long term (chronic)	local	25	mg/cm²
	dermal	Short term (acut)	local	25	mg/cm²
	inhalative	Long term (chronic)	systemic	98,7	mg/m³
	inhalative	Short term (acut)	systemic	35,26	mg/m³
	inhalative	Long term (chronic)	local	88,16	mg/m³
	inhalative	Short term (acut)	local	88,16	mg/m³
6	pin-2(10)-ene			127-91-3 204-872-5	
	dermal	Long term (chronic)	systemic	0,8	mg/kg/day
	dermal	Long term (chronic)	local	54	µg/cm²
	inhalative	Long term (chronic)	svstemic	5.69	mg/m³

DNEL value (consumer)

DNEL value (consumer)					
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/m³
2	A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol;trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol			- 405-040-6	
	oral	Long term (chronic)	systemic	7,5	mg/kg/day
	dermal	Long term (chronic)	systemic	25	mg/kg/day
	inhalative	Long term (chronic)	systemic	13	mg/m³
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 (acut)	systemic	1,3	mg/kg/day
	dermal	Long term (chronic)	systemic	1,4	mg/kg/day
	dermal	Short term (acut)	systemic	2,7	mg/kg/day

Trade name: LINARI - ACQUA SANTA

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

Region: IE

	dermal	Long term (chronic)	local	1,6	mg/cm ²
	dermal	Short term (acut)	local	1,6	mg/cm ²
	inhalative	Long term (chronic)	systemic	0,74	mg/m ³
	inhalative	Short term (acut)	systemic	4,4	mg/m ³
4	(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
5	4-methyl-3-decen-5-ol			81782-77-6 279-815-0	
	oral	Long term (chronic)	systemic	10	mg/kg bw/day
	oral	Short term (acut)	systemic	5	mg/kg bw/day
	dermal	Long term (chronic)	systemic	89,3	µg/kg bw/day
	dermal	Short term (acut)	systemic	5	mg/kg bw/day
	dermal	Long term (chronic)	local	12,5	mg/cm ²
	dermal	Short term (acut)	local	12,5	mg/cm ²
	inhalative	Long term (chronic)	systemic	14,38	mg/m ³
	inhalative	Short term (acut)	systemic	8,7	mg/m ³
	inhalative	Long term (chronic)	local	21,74	mg/m ³
	inhalative	Short term (acut)	local	21,74	mg/m ³
6	pin-2(10)-ene			127-91-3 204-872-5	
	oral	Long term (chronic)	systemic	0,3	mg/kg/day
	dermal	Long term (chronic)	systemic	0,3	mg/kg/day
	dermal	Long term (chronic)	local	27	µg/cm ²
	inhalative	Long term (chronic)	systemic	1	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	-	0,38	g/kg
	with reference to: food			
2	A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol;trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol		- 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
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 - ACQUA SANTA

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

Region: IE

	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 with reference to: food	-	8,53	mg/kg
4	(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 with reference to: food	-	40	mg/kg
5	4-methyl-3-decen-5-ol		81782-77-6 279-815-0	
	water	fresh water	0,76	µg/L
	water	marine water	76	ng/L
	water	fresh water sediment	92	µg/kg
	with reference to: dry weight			
	water	marine water sediment	9,2	µg/kg
	with reference to: dry weight			
	soil	-	18	µg/kg
	with reference to: dry weight			
	sewage treatment plant	-	10	mg/L
	secondary poisoning with reference to: food	-	111,1	mg/kg
6	pin-2(10)-ene		127-91-3 204-872-5	
	water	fresh water	1,004	µg/L
	water	marine water	0,1	µg/L
	water	fresh water sediment	0,337	mg/kg dry weight
	water	marine water sediment	0,034	mg/kg dry weight
	soil	-	0,067	mg/kg dry weight
	sewage treatment plant	-	3,26	mg/L
	secondary poisoning	-	13,1	mg/kg food

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Respiratory protection

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

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Trade name: LINARI - ACQUA SANTA**Current version :** 2.0.0, issued: 04.06.2024**Replaced version:** 1.0.1, issued: 16.12.2022**Region:** IE

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

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

State of aggregation		
liquid		
Colour		
No data available		
Odour		
No data available		
pH value		
No data available		
Boiling point / boiling range		
Value	78	°C
Reference substance	Ethanol	
Melting point/freezing point		
No data available		
Decomposition temperature		
No data available		
Flash point		
Value	13	°C
Reference substance	Ethanol	
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		

Trade name: LINARI - ACQUA SANTA

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

Region: IE

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	A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol;trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	-	405-040-6
log Pow		appr. 1,65	
Reference temperature		23	°C
Method		EU Method A.8	
Source		ECHA	
3	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
log Pow		4,8	
Reference temperature		25	°C
Method		OECD 117	
Source		ECHA	
4	4-methyl-3-decen-5-ol	81782-77-6	279-815-0
log Pow		3,9	
Reference temperature		30	°C
with reference to		pH 7	
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**

Dangerous reactions are not expected if the product is handled according to its intended use.

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

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

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****Acute oral toxicity (result of the ATE calculation for the mixture)**

No	Product Name
1	LINARI - ACQUA SANTA

Trade name: LINARI - ACQUA SANTA

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

Region: IE

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).
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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	A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol;trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	-	405-040-6
LD50		> 2000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
3	(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	A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol;trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	-	405-040-6
LD50		> 2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
2	(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		
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.		

Trade name: LINARI - ACQUA SANTA

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

Region: IE

2	A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol;trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol			-	405-040-6
Duration of exposure		4 h			
Species		rabbit			
Method		OECD 404			
Source		ECHA			
Evaluation		non-irritant			
3	4-methyl-3-decen-5-ol			81782-77-6	279-815-0
Species		rabbit			
Method		OECD 404			
Source		ECHA			
Evaluation		non-irritant			
Evaluation/classification		Based on available data, the classification criteria are not met.			
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	A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol;trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol			-	405-040-6
Species		rabbit			
Method		OECD 405			
Source		ECHA			
Evaluation		Irritating to eyes			
3	(Z)-3-hexenyl salicylate			65405-77-8	265-745-8
Species		rabbit			
Method		EU B.5			
Source		ECHA			
Evaluation		non-irritant			
4	4-methyl-3-decen-5-ol			81782-77-6	279-815-0
Species		rabbit			
Method		OECD 405			
Source		ECHA			
Evaluation		non-irritant			
Evaluation/classification		Based on available data, the classification criteria are not met.			
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			
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	A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol;trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol			-	405-040-6
Route of exposure		Skin			
Species		Guinea pig			
Method		OECD 406			
Source		ECHA			
Evaluation		non-sensitizing			

Trade name: LINARI - ACQUA SANTA

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

Region: IE

3	(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	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	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	(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.		

STOT - single exposure			
No data available			

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.

Trade name: LINARI - ACQUA SANTA

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

Region: IE

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	A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol;trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	-	405-040-6
Route of exposure	oral		
NOAEL		125	mg/kg bw/d
Duration of exposure		4	week/s
Species	rat		
Method	OECD 407		
Source	ECHA		
Route of exposure	dermal		
NOAEL		1000	mg/kg bw/d
Species	rat		
Method	OECD 411		
Source	ECHA		
3	(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	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
LC50		> 0,65	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
Toxicity to fish (chronic)			
No data available			
Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.

Trade name: LINARI - ACQUA SANTA

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

Region: IE

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	(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		
3	4-methyl-3-decen-5-ol	81782-77-6	279-815-0
EC50		0,4	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 met.		

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		

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	(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	4-methyl-3-decen-5-ol	81782-77-6	279-815-0
EC50		3,6	mg/l
Duration of exposure		72	h
Species	Raphidocelis subcapitata		
Method	OECD 201		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		

Bacteria toxicity

No	Substance name	CAS no.	EC no.
1	4-methyl-3-decen-5-ol	81782-77-6	279-815-0
NOEC		100	mg/l
Duration of exposure		28	day(s)
Species	activated sludge		
Method	OECD 301 F		
Source	ECHA		

12.2 Persistence and degradability

Trade name: LINARI - ACQUA SANTA

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

Region: IE

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	A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol;trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	-	405-040-6
Type	aerobic biodegradation		
Value	0	- 10	%
Duration		28	day(s)
Evaluation	not readily biodegradable		
3	(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		
4	4-methyl-3-decen-5-ol	81782-77-6	279-815-0
Type	aerobic biodegradation		
Value		73	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		

12.3 Bioaccumulative potential

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	A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol;trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	-	405-040-6
log Pow	appr.	1,65	
Reference temperature		23	°C
Method	EU Method A.8		
Source	ECHA		
3	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
log Pow		4,8	
Reference temperature		25	°C
Method	OECD 117		
Source	ECHA		
4	4-methyl-3-decen-5-ol	81782-77-6	279-815-0
log Pow		3,9	
Reference temperature		30	°C
with reference to	pH 7		
Method	OECD 117		
Source	ECHA		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Trade name: LINARI - ACQUA SANTA**Current version :** 2.0.0, issued: 04.06.2024**Replaced version:** 1.0.1, issued: 16.12.2022**Region:** IE**Results of PBT and vPvB assessment**

PBT assessment	No data available.
vPvB assessment	No data available.

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	UN1266
IMDG	UN1266
ICAO-TI / IATA	UN1266

14.2 UN proper shipping name

ADR/RID/ADN	PERFUMERY PRODUCTS
IMDG	PERFUMERY PRODUCTS
Technical name	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1 one
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.	33
Special Provision 640	640C
IMDG - Class	3
Label	3
ICAO-TI / IATA - Class	3
Label	3

14.4 Packing group

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

14.5 Environmental hazards

ADR/RID/ADN	Symbol "fish and tree"
IMDG	Symbol "fish and tree"
EmS	F-E, S-D

Trade name: LINARI - ACQUA SANTA**Current version :** 2.0.0, issued: 04.06.2024**Replaced version:** 1.0.1, issued: 16.12.2022**Region:** IE**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

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	(E)-2-methoxy-4-(prop-1-enyl)phenol	5932-68-3	227-678-2	75
2	(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	75
3	A mixture of: cis-tetrahydro-2-isobutyl-4-methylpyran-4-ol;trans-tetrahydro-2-isobutyl-4-methylpyran-4-ol	-	405-040-6	75
4	geraniol	106-24-1	203-377-1	75
5	linalool	78-70-6	201-134-4	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, P5b

If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

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)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.

Trade name: LINARI - ACQUA SANTA

Current version : 2.0.0, issued: 04.06.2024**Replaced version:** 1.0.1, issued: 16.12.2022**Region:** IE

H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

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

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