

Trade name: LINARI - MARE PACIFICO**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 - MARE PACIFICO****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
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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:

Benzyl salicylate

Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

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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 2,2,6-trimethyl-alpha-propylcyclohexanepropanol, (R)-p-mentha-1,8-diene, alpha-hexylcinnamaldehyde, pin-2(3)-ene, geraniol, alpha-methyl-1,3-benzodioxole-5-propionaldehyde, methyl 2,4-dihydroxy-3,6-dimethylbenzoate, 3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde, Petitgrain lemon, 2,6,10-trimethylundec-9-enal, 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene, 7-hydroxycitronellal, linalool, isoeugenol. 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	Benzyl salicylate		pls. refer to footnote (1)
	118-58-1 204-262-9 607-754-00-5 -	Aquatic Chronic 3; H412 Skin Sens. 1B; H317 Eye Irrit. 2; H319	< 5,00 wt%
3	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		
	- 915-730-3 - 01-2119489989-04	Aquatic Chronic 1; H410 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 2,50 wt%
4	2,2,6-trimethyl-alpha-propylcyclohexanepropanol		

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	70788-30-6 274-892-7 -	Skin Sens. 1B; H317	< 2,50	wt%
5	(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%
6	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one			
	1506-02-1 216-133-4 -	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 2,50	wt%
7	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 01-2119488227-29	Aquatic Chronic 1; H410 Aquatic Acute 1; H400	< 2,50	wt%
8	alpha-hexylcinnamaldehyde			
	101-86-0 202-983-3 -	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Skin Sens. 1B; H317	< 0,50	wt%
9	(Z)-3-hexenyl salicylate			
	65405-77-8 265-745-8 -	Aquatic Acute 1; H400	< 0,50	wt%
10	2-methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol			
	28219-60-5 248-907-2 -	Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,50	wt%
11	pin-2(3)-ene			
	80-56-8 201-291-9 -	Aquatic Acute 1; H400 Asp. Tox. 1; H304 Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 1; H410	< 0,50	wt%
12	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	< 0,50	wt%
13	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%
14	methyl 2,4-dihydroxy-3,6-dimethylbenzoate			
	4707-47-5 225-193-0 -	Skin Sens. 1B; H317	< 0,50	wt%
15	3-(p-ethylphenyl)-2,2-dimethylpropionaldehyde			

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	67634-15-5 266-819-2 - -	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	< 0,50	wt%
16	Petitgrain lemon			
	8048-51-9 617-086-6 - -	Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,50	wt%
17	2,6,10-trimethylundec-9-enal			
	141-13-9 205-460-8 - 01-2120139915-49	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,50	wt%
18	3,7,7-trimethylbicyclo[4.1.0]hept-3-ene			
	13466-78-9 236-719-3 - -	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	< 0,50	wt%
19	7-methyl-3-methyleneocta-1,6-diene			
	123-35-3 204-622-5 - -	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	< 0,50	wt%
20	7-hydroxycitronellal			
	107-75-5 203-518-7 - -	Eye Irrit. 2; H319 Skin Sens. 1; H317	< 0,50	wt%
21	linalool			
	78-70-6 201-134-4 603-235-00-2 -	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	< 0,50	wt%
22	isoeugenol			
	97-54-1 202-590-7 604-094-00-X -	Skin Sens. 1A; H317	< 0,10	wt%

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.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	Eye Irrit. 2; H319: C ≥ 50%	-	-
5	-	-	M = 1	-
9	-	-	M = 1	-
22	-	Skin Sens. 1A; H317: C ≥ 0,01%	-	-

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

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
6	1150 mg/kg bodyweight		
17	6 mg/kg bodyweight		

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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

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

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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)			
	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/m ³
2	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			- 915-730-3	
	dermal	Long term (chronic)	systemic	28,7	mg/kg/day
	dermal	Long term (chronic)	local	648	µg/cm ²
	inhalative	Long term (chronic)	systemic	30	mg/m ³

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3	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one			1506-02-1 216-133-4
	dermal	Long term (chronic)	systemic	0,61 mg/kg/day
	dermal	Short term (acut)	systemic	1,8 mg/kg/day
	inhalative	Long term (chronic)	systemic	0,175 mg/m ³
	inhalative	Short term (acut)	systemic	0,525 mg/m ³
4	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran			1222-05-5 214-946-9
	dermal	Long term (chronic)	systemic	36,7 mg/kg/day
	inhalative	Long term (chronic)	systemic	13,5 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
6	alpha-methyl-1,3-benzodioxole-5-propionaldehyde			1205-17-0 214-881-6
	dermal	Long term (chronic)	systemic	0,17 mg/kg bw/day
	dermal	Long term (chronic)	local	0,01 mg/cm ²
	inhalative	Long term (chronic)	systemic	1,2 mg/m ³
7	2,6,10-trimethylundec-9-enal			141-13-9 205-460-8
	dermal	Long term (chronic)	systemic	6,7 mg/kg bw/day
	dermal	Short term (acut)	systemic	160 mg/kg bw/day
	dermal	Long term (chronic)	local	133 µg/cm ²
	dermal	Short term (acut)	local	133,33 µg/cm ²
	inhalative	Long term (chronic)	systemic	23,63 mg/m ³
	inhalative	Short term (acut)	systemic	23,63 mg/m ³
	inhalative	Long term (chronic)	local	59,07 mg/m ³
	inhalative	Short term (acut)	local	59,07 mg/m ³

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/m ³
2	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			- 915-730-3
	oral	Long term (chronic)	systemic	3 mg/kg/day
	dermal	Long term (chronic)	systemic	17,2 mg/kg/day
	dermal	Long term (chronic)	local	380 µg/cm ²
	inhalative	Long term (chronic)	systemic	9 mg/m ³
3	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one			1506-02-1 216-133-4
	oral	Long term (chronic)	systemic	0,013 mg/kg/day
	oral	Short term (acut)	systemic	1,2 mg/kg/day
	dermal	Long term (chronic)	systemic	0,305 mg/kg/day
	dermal	Short term (acut)	systemic	0,915 mg/kg/day
	inhalative	Long term (chronic)	systemic	0,043 mg/m ³
	inhalative	Short term (acut)	systemic	0,131 mg/m ³
4	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran			1222-05-5 214-946-9
	oral	Long term (chronic)	systemic	2,3 mg/kg/day
	dermal	Long term (chronic)	systemic	22 mg/kg/day
	inhalative	Long term (chronic)	systemic	4 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

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	inhalative	Long term (chronic)	systemic	0,39	mg/m ³
6	alpha-methyl-1,3-benzodioxole-5-propionaldehyde			1205-17-0 214-881-6	
	oral	Long term (chronic)	systemic	0,17	mg/kg bw/day
	dermal	Long term (chronic)	systemic	0,083	mg/kg bw/day
	dermal	Long term (chronic)	local	0,005	mg/cm ²
	inhalative	Long term (chronic)	systemic	0,29	mg/m ³
7	2,6,10-trimethylundec-9-enal			141-13-9 205-460-8	
	oral	Long term (chronic)	systemic	3,35	mg/kg bw/day
	dermal	Long term (chronic)	systemic	3,35	mg/kg bw/day
	dermal	Long term (chronic)	local	38,1	µg/cm ²
	dermal	Short term (acut)	local	38,1	µg/cm ²
	inhalative	Long term (chronic)	systemic	5,83	mg/m ³
	inhalative	Short term (acut)	systemic	5,83	mg/m ³
	inhalative	Long term (chronic)	local	14,57	mg/m ³
	inhalative	Short term (acut)	local	14,57	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	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		- 915-730-3
	water	fresh water	4,4 µg/L
	water	fresh water sediment	3,73 mg/kg dry weight
	water	marine water sediment	0,75 mg/kg dry weight
	soil	-	2,7 mg/kg dry weight
	sewage treatment plant	-	10 mg/L
	secondary poisoning	-	26,7 mg/kg
	with reference to: food		
3	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		1506-02-1 216-133-4
	water	fresh water	2,2 µg/L
	water	marine water	0,22 µg/L
	water	Aqua intermittent	6,1 µg/L
	water	fresh water sediment	1,72 mg/kg
	water	marine water sediment	0,345 mg/kg
	soil	-	0,31 mg/kg dry weight
	sewage treatment plant	-	2,2 mg/L
	secondary poisoning	-	1,1 mg/kg food
4	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran		1222-05-5 214-946-9
	water	fresh water	6,8 µg/L

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	water	marine water	0,44	µg/L
	water	fresh water sediment	2	mg/kg dry weight
	water	marine water sediment	0,394	mg/kg dry weight
	soil	-	1,5	mg/kg dry weight
	sewage treatment plant	-	1	mg/L
	secondary poisoning	-	20,4	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			
6	alpha-methyl-1,3-benzodioxole-5-propionaldehyde		1205-17-0 214-881-6	
	water	fresh water	0,005	mg/L
	water	marine water	0,001	mg/L
	water	fresh water sediment	0,057	mg/kg dry weight
	water	marine water sediment	0,006	mg/kg dry weight
	soil	-	0,008	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
7	2,6,10-trimethylundec-9-enal		141-13-9 205-460-8	
	water	fresh water	0,588	µg/L
	water	marine water	0,059	µg/L
	water	fresh water sediment	0,427	mg/kg dry weight
	water	marine water sediment	0,043	mg/kg dry weight
	soil	-	0,093	mg/kg dry weight
	sewage treatment plant	-	10	mg/L

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 - MARE PACIFICO**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		

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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	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		915-730-3
log Pow		5,65	
Reference temperature		30	°C
Method		OECD 117	
Source		ECHA	
3	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	1506-02-1	216-133-4
log Pow		5,7	
Reference temperature		24	°C
Method		OECD 117	
Source		ECHA	
4	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	214-946-9
log Pow		5,3	
Reference temperature		25	°C
Source		ECHA	
5	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
log Pow		4,8	
Reference temperature		25	°C
Method		OECD 117	
Source		ECHA	
6	alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0	214-881-6
log Pow		2,4	
Reference temperature		25	°C
Method		OECD 117	
Source		ECHA	
7	2,6,10-trimethylundec-9-enal	141-13-9	205-460-8
log Pow		6,2	
Reference temperature		35	°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**

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).

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Region: IE

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			
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	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		915-730-3
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
3	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	1506-02-1	216-133-4
LD50		1150	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
4	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	214-946-9
LD50	>	2150	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		
6	alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0	214-881-6
LD50		3561	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
7	2,6,10-trimethylundec-9-enal	141-13-9	205-460-8
LD50	>	5	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Trade name: LINARI - MARE PACIFICO

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

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Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
2	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	214-946-9
LD50	>	5000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
3	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	EU Method B.3		
Source	ECHA		
4	alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0	214-881-6
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
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.		
2	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
Duration of exposure	15		min
Species	Human		
Method	OECD 439		
Source	ECHA		
Evaluation	irritant		
3	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	214-946-9
Species	rabbit		

Trade name: LINARI - MARE PACIFICO

Current version : 2.0.0, issued: 04.06.2024

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Method	OECD 404
Source	ECHA
Evaluation	non-irritant
4	alpha-methyl-1,3-benzodioxole-5-propionaldehyde 1205-17-0 214-881-6
Duration of exposure	4 h
Species	rabbit
Method	OECD 404
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
5	2,6,10-trimethylundec-9-enal 141-13-9 205-460-8
Species	Human
Method	OECD 439
Source	ECHA
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	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	214-946-9
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
3	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
Species	rabbit		
Method	EU B.5		
Source	ECHA		
Evaluation	non-irritant		
4	alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0	214-881-6
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
5	2,6,10-trimethylundec-9-enal	141-13-9	205-460-8
Duration of exposure	10 min		
Species	cattle		
Method	OECD 437		
Source	ECHA		
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.		

Trade name: LINARI - MARE PACIFICO

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2	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	915-730-3
Route of exposure		Skin
Species		Human
Method		Patch-Test
Source		ECHA
Evaluation		sensitizing
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
4	alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0 214-881-6
Route of exposure		Skin
Species		mouse
Method		OECD 429
Source		ECHA
Evaluation		sensitizing
5	2,6,10-trimethylundec-9-enal	141-13-9 205-460-8
Route of exposure		Skin
Species		mouse
Method		OECD 429
Source		ECHA
Evaluation		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	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5 214-946-9
Type of examination		Ames-Test
Species		bacteria
Method		OECD 471
Source		ECHA
Evaluation/classification		Based on available data, the classification criteria are not met.
3	(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.
4	alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0 214-881-6
Type of examination		in vitro gene mutation study in bacteria
Species		S. typhimurium TA 1535, TA 1537, TA 98 and TA 100

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

Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
5	2,6,10-trimethylundec-9-enal	141-13-9	205-460-8
Type of examination	in vitro gene mutation study in bacteria		
Species	S. typhimurium TA 1535, TA 1537, TA 98 and TA 100S. typhimurium TA 1535, TA 1537, TA 98, TA 100, TA 102		
Method	EU Method B.13/14		
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	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	214-946-9
Route of exposure		oral	
NOAEL		> 20 mg/kg bw/d	
Species		rat	
Method		OECD 426	
Source		Chlorpyrifos SANCO/3059/99 - rev. 1.5, 3 June 2005	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	(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.		
4	2,6,10-trimethylundec-9-enal	141-13-9	205-460-8
Route of exposure		oral	
NOAEL		1500 mg/kg bw/d	
Duration of exposure		28 day(s)	
Species		rat	
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.
1	ethanol	64-17-5	200-578-6
Route of exposure		oral	
Duration of exposure		14 week/s	
Species		rat	

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Target organ	kidneys		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	214-946-9
Route of exposure	oral		
	> 150 mg/kg bw/d		
Species	rat		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
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	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		915-730-3
LC50		1,3	mg/l
Duration of exposure		96	h
Species	Lepomis macrochirus		
Method	OECD 203		
Source	ECHA		
3	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	1506-02-1	216-133-4
LC50		1,49	mg/l
Duration of exposure		96	h
Species	Lepomis macrochirus		
Method	OECD 204		
Source	ECHA		
4	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	214-946-9
LC50		0,95	mg/l
Duration of exposure		96	h

Trade name: LINARI - MARE PACIFICO

Current version : 2.0.0, issued: 04.06.2024

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Species	Oryzias latipes		
Method	OECD 203		
Source	ECHA		
5	(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		
6	alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0	214-881-6
LC50		5,3	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
7	2,6,10-trimethylundec-9-enal	141-13-9	205-460-8
LC50	>	0,609	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
NOEC		0,16	mg/l
Species	Danio rerio		
Method	OECD 210		
Source	ECHA		
2	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	1506-02-1	216-133-4
NOEC		0,035	mg/l
Species	Brachydanio rerio		
Method	OECD 210		
Source	ECHA		
3	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	214-946-9
NOEC		0,068	mg/l
Duration of exposure		36	day(s)
Species	Fathead minnow		
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	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
EC50		1,38	mg/l

Trade name: LINARI - MARE PACIFICO

Current version : 2.0.0, issued: 04.06.2024

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Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	
3	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	1506-02-1 216-133-4
EC50	>	800 mg/l
Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	
4	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5 214-946-9
EC50	0,3	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	
6	alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0 214-881-6
EC50	8,3	mg/l
Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	
7	2,6,10-trimethylundec-9-enal	141-13-9 205-460-8
EL50	0,9	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	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		915-730-3
NOEC		0,028	mg/l
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
3	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	1506-02-1	216-133-4
NOEC		0,022	mg/l
Species	Acartia tonsa		
Method	OECD 211		
Source	ECHA		
4	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	214-946-9
NOEC		0,038	mg/l

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

Duration of exposure	6	day(s)
Species	Daphnia magna	
Method	OECD 211	
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	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		915-730-3
EC50		>	2,6 mg/l
Duration of exposure		72	h
Species	Scenedesmus subspicatus		
Method	OECD 201		
Source	ECHA		
3	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	1506-02-1	216-133-4
ErC50		>	0,835 mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
4	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	214-946-9
EC50		>	854 µg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
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		
6	alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0	214-881-6
EC50		28	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
7	2,6,10-trimethylundec-9-enal	141-13-9	205-460-8
EC50		>	0,588 mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No	Substance name	CAS no.	EC no.

Trade name: LINARI - MARE PACIFICO

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

Region: IE

1	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	915-730-3
NOEL	100	mg/l
Species	activated sludge	
Method	OECD 301 F	
Source	ECHA	
2	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5 214-946-9
IC50	> 10	mg/l
Species	activated sludge	
Method	OECD 301 D	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	

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	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
Type		aerobic biodegradation	
Value		60	%
Method		OECD 301 C	
Source		ECHA	
Evaluation		not readily biodegradable	
3	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	1506-02-1	216-133-4
Value		21	%
Method		NEN 6515	
Source		ECHA	
Evaluation		not readily biodegradable	
4	(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	
5	2,6,10-trimethylundec-9-enal	141-13-9	205-460-8
Type		aerobic biodegradation	
Value		84	%
Duration		28	day(s)
Method		OECD 301 F	
Source		ECHA	
Evaluation		readily biodegradable	

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)

Trade name: LINARI - MARE PACIFICO

Current version : 2.0.0, issued: 04.06.2024

Replaced version: 1.0.1, issued: 16.12.2022

Region: IE

No	Substance name	CAS no.	EC no.
1	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
BCF		appr. 600	
Species		Lepomis macrochirus	
Method		OECD 305	
Source		ECHA	
2	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	1506-02-1	216-133-4
BCF		1320	
Species		Lepomis macrochirus	
Method		OECD 305 E	
Source		ECHA	
3	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	214-946-9
BCF		1584 - 1624	
Species		Lepomis macrochirus	
Method		OECD 305 E	
Source		ECHA	

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	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	-	915-730-3
log Pow		5,65	
Reference temperature		30	°C
Method	OECD 117		
Source	ECHA		
3	1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	1506-02-1	216-133-4
log Pow		5,7	
Reference temperature		24	°C
Method	OECD 117		
Source	ECHA		
4	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	214-946-9
log Pow		5,3	
Reference temperature		25	°C
Source	ECHA		
5	(Z)-3-hexenyl salicylate	65405-77-8	265-745-8
log Pow		4,8	
Reference temperature		25	°C
Method	OECD 117		
Source	ECHA		
6	alpha-methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0	214-881-6
log Pow		2,4	
Reference temperature		25	°C
Method	OECD 117		

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

Source	ECHA
7	2,6,10-trimethylundec-9-enal
	141-13-9
	205-460-8
log Pow	6,2
Reference temperature	35 °C
Method	OECD 117
Source	ECHA

12.4 Mobility in soil

Mobility in soil			
No	Substance name	CAS no.	EC no.
1	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	214-946-9
log Koc		4,07	
Method	OECD 106		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

12.5 Results of PBT and vPvB assessment

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	Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one
ICAO-TI / IATA	Perfumery products

14.3 Transport hazard class(es)

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

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

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	(R)-p-mentha-1,8-diene	5989-27-5	227-813-5	75
2	Benzyl salicylate	118-58-1	204-262-9	75
3	citral	5392-40-5	226-394-6	75
4	geraniol	106-24-1	203-377-1	75
5	isoeugenol	97-54-1	202-590-7	75
6	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.

Trade name: LINARI - MARE PACIFICO**Current version :** 2.0.0, issued: 04.06.2024**Replaced version:** 1.0.1, issued: 16.12.2022**Region:** IE**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.
H315	Causes skin irritation.
H318	Causes serious eye damage.
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.

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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