Trade name: LINARI-RUBINO

Current version: 6.0.0, Revision: 22.01.2026 **Replaced version:** 5.0.0, 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-RUBINO

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.

Hazard statements (EU)

EUH208	Contains Benzyl salicylate, 7-hydroxycitronellal, (2E)-2-(phenylmethylidene)octanal, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one, alpha-methyl-1,3-benzodioxole-5-propionaldehyde, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1 one, linalyl acetate, 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.
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	**Benzyl salicylate**			
	118-58-1 204-262-9 607-754-00-5 01-2119969442-31	Aquatic Chronic 3; H412 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	**(Z)-3-hexenyl salicylate**			
	65405-77-8 265-745-8 - 01-2119987320-37	Aquatic Acute 1; H400	< 2.50	wt%
5	**(2E)-2-(phenylmethylidene)octanal**			
	165184-98-5 639-566-4 - -	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Skin Sens. 1B; H317	< 0.50	wt%
6	**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. 1; H317	<	0.50	wt%
7	**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%
8	**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	<	0.50	wt%
9	**linalyl acetate**				
	115-95-7 204-116-4 - -	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	<	0.50	wt%
10	**Citronellol**				
	106-22-9 203-375-0 - -	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1B; H317	<	0.50	wt%
11	**A mixture of cis- and trans-cyclohexadec-8-en-1-one**				
	3100-36-5 401-700-2 606-046-00-3 01-0000015154-78	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<	0.50	wt%
12	**Oxacycloheptadec-10-en-2-one**				
	28645-51-4 249-120-7 - -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<	0.10	wt%

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

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

No	Route, target organ, concrete effect
7	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.

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. Cool endangered containers with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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
When collected, handle material as described under the section heading "Disposal considerations".

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
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/m³	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	**Benzyl salicylate**			**118-58-1 204-262-9**	
	dermal	Long term (chronic)	systemic	2.21	mg/kg/day
	inhalative	Long term (chronic)	systemic	7.8	mg/m³
3	**7-hydroxycitronellal**			**107-75-5 203-518-7**	
	dermal	Long term (chronic)	systemic	4.9	mg/kg bw/day
	dermal	Short term (acut)	local	500	µg/cm²
	inhalative	Long term (chronic)	systemic	8.7	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

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	**Benzyl salicylate**			**118-58-1 204-262-9**	
	oral	Long term (chronic)	systemic	0.79	mg/kg/day
	dermal	Long term (chronic)	systemic	0.79	mg/kg/day
	inhalative	Long term (chronic)	systemic	1.37	mg/m³
3	**7-hydroxycitronellal**			**107-75-5 203-518-7**	
	oral	Long term (chronic)	systemic	1.2	mg/kg bw/day

	dermal	Long term (chronic)	systemic	2.5	mg/kg bw/day
	dermal	Short term (acut)	local	500	µg/cm²
	inhalative	Long term (chronic)	systemic	2.1	mg/m³
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/m³

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	**Benzyl salicylate**		**118-58-1 204-262-9**	
	water	fresh water	0.001	mg/L
	water	marine water	0	mg/L
	water	fresh water sediment	0.583	mg/kg dry weight
	water	marine water sediment	0.058	mg/kg dry weight
	soil	-	1.41	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
	secondary poisoning	-	52.7	mg/kg food
3	**7-hydroxycitronellal**		**107-75-5 203-518-7**	
	water	fresh water	31.6	µg/L
	water	marine water	3.16	µg/L
	soil	-	0.011	mg/kg dry weight
	sewage treatment plant	-	10	mg/L
4	**(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

9.1 Information on basic physical and chemical properties

State of aggregation
liquid

Form
liquid

Colour
colourless

Odour
perfumed-like

pH value	
Value	5.5

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	28	°C
Method	DIN 51755	

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

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	**Benzyl salicylate**	**118-58-1**		**204-262-9**
log Pow			4.0	
Reference temperature			35	°C
Method	OECD 117			
Source	ECHA			
3	**7-hydroxycitronellal**	**107-75-5**		**203-518-7**
log Pow			1.68	
Reference temperature			25	°C
Method	OECD 107			
Source	ECHA			
4	**(Z)-3-hexenyl salicylate**	**65405-77-8**		**265-745-8**
log Pow			4.8	
Reference temperature			25	°C
Method	OECD 117			
Source	ECHA			
5	**A mixture of cis- and trans-cyclohexadec-8-en-1-one**	**3100-36-5**		**401-700-2**
log Pow			5.7	
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

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	**(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	**(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.		
2	**7-hydroxycitronellal**	**107-75-5**	**203-518-7**
Duration of exposure	4	h	
Species	rabbit		
Method	EU B.4		
Source	ECHA		
Evaluation	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 not met.		
2	**Benzyl salicylate**	**118-58-1**	**204-262-9**
Species	rabbit		
Method	OECD 437		
Source	ECHA		
Evaluation	irritant		
3	**7-hydroxycitronellal**	**107-75-5**	**203-518-7**
Species	rabbit		
Method	BASF-Test		
Source	ECHA		
Evaluation	non-irritant		
4	**(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		
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	**Benzyl salicylate**	**118-58-1**	**204-262-9**
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		

Evaluation	sensitizing

3	7-hydroxycitronellal	107-75-5	203-518-7
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	sensitizing		

4	(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	(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	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	(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.**
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.	
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	**Benzyl salicylate**	**118-58-1**	**204-262-9**
LC50		1.03	mg/l
Duration of exposure		96	h
Species		Brachydanio rerio	
Method		440/2008/EC C.1.	
Source		ECHA	

3	7-hydroxycitronellal	107-75-5		203-518-7
LC50			31.6	mg/l
Duration of exposure			96	h
Species		Leuciscus idus		
Method		DIN 38412		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		
4	**(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		
5	**A mixture of cis- and trans-cyclohexadec-8-en-1-one**	**3100-36-5**		**401-700-2**
LC50			0.75	mg/l
Duration of exposure			96	h
Species		Oncorhynchus mykiss		
Source		ECHA		

Toxicity to fish (chronic)
No data available

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	**Benzyl salicylate**	**118-58-1**		**204-262-9**
EC50			2.25	mg/l
Duration of exposure			48	h
Species		Daphnia magna		
Method		OECD 202		
Source		ECHA		
3	**7-hydroxycitronellal**	**107-75-5**		**203-518-7**
EC50			410	mg/l
Duration of exposure			48	h
Species		Daphnia magna		
Method		EEC 79/831		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		
4	**(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		
5	**A mixture of cis- and trans-cyclohexadec-8-en-1-one**	**3100-36-5**		**401-700-2**
EC50			0.23	mg/l
Duration of exposure			48	h
Species		Daphnia magna		
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		

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	**Benzyl salicylate**	**118-58-1**		**204-262-9**	
ErC50			1.29		mg/l
Duration of exposure			72		h
Species		Selenastrum capricornutum			
Method		OECD 201			
Source		ECHA			
3	**7-hydroxycitronellal**	**107-75-5**		**203-518-7**	
EC50			123.32		mg/l
Duration of exposure			72		h
Species		Desmodesmus subspicatus			
Method		OECD 201			
Source		ECHA			
Evaluation/classification		Based on available data, the classification criteria are not met.			
4	**(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 data available

Bacteria toxicity					
No	**Substance name**	**CAS no.**		**EC no.**	
1	**A mixture of cis- and trans-cyclohexadec-8-en-1-one**	**3100-36-5**		**401-700-2**	
IC50		>	10000		mg/l
Duration of exposure			3		h
Species		activated sludge			
Source		ECHA			

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	**Benzyl salicylate**	**118-58-1**		**204-262-9**	
Type		aerobic biodegradation			
Value			93		%
Method		OECD 301 F			
Source		ECHA			
3	**7-hydroxycitronellal**	**107-75-5**		**203-518-7**	
Type		aerobic biodegradation			
Value		80	- 90		%
Duration			28		day(s)
Method		OECD 301 F			
Source		ECHA			
Evaluation		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	**A mixture of cis- and trans-cyclohexadec-8-en-1-one**	**3100-36-5**	**401-700-2**
Value		100	%
Duration		28	d
Source	ECHA		

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	**Substance name**	**CAS no.**	**EC no.**
1	**Benzyl salicylate**	**118-58-1**	**204-262-9**
BCF		202	
Method	QSAR		
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	**Benzyl salicylate**	**118-58-1**	**204-262-9**
log Pow		4.0	
Reference temperature		35	°C
Method	OECD 117		
Source	ECHA		
3	**7-hydroxycitronellal**	**107-75-5**	**203-518-7**
log Pow		1.68	
Reference temperature		25	°C
Method	OECD 107		
Source	ECHA		
4	**(Z)-3-hexenyl salicylate**	**65405-77-8**	**265-745-8**
log Pow		4.8	
Reference temperature		25	°C
Method	OECD 117		
Source	ECHA		
5	**A mixture of cis- and trans-cyclohexadec-8-en-1-one**	**3100-36-5**	**401-700-2**
log Pow		5.7	
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	
LINARI-RUBINO	
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

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	**alpha-methyl-1,3-benzodioxole-5-propionaldehyde**	**1205-17-0**	**214-881-6**	**75**
2	**Benzyl salicylate**	**118-58-1**	**204-262-9**	**75**
3	**dimethylcyclohex-3-ene-1-carbaldehyde**	**68737-61-1**	**272-113-5**	**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.

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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