

ESENCIA 11433
ART. COMERCIAL FRENCH VAINILLA

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: ESENCIA 11433
ART. COMERCIAL FRENCH VAINILLA

Other means of identification:

UFI: AAVU-F0MU-R00X-7C66

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant uses (Consumer use): Fragrance
Relevant uses (Professional users): Fragrance
Relevant uses (Industrial user): Fragrance
Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

ESSENTIAL COMPOSITIONS, S.L.
C/ BROSQUIL Nº 2, POL. ALCODAR
46701 GANDÍA - VALENCIA - ESPAÑA
Phone: +34 96 111 70 07 - Fax: +34 96 296 59 05
info@essentialcompositions.com
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1.4 Emergency telephone number: +34 91 562 04 20

SECTION 2: HAZARDS IDENTIFICATION **

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Eye Irrit. 2: Eye irritation, Category 2, H319
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning



Hazard statements:

Acute Tox. 4: H302 - Harmful if swallowed.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P261: Avoid breathing vapours
P264: Wash thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/protective footwear.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501: Dispose of contents/container according to the separated collection system used in your municipality.

Supplementary information:

Contains Coumarin, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Hexyl cinnam-aldehyde, d-limonene, Benzyl salicylate, 2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch, Citronellol, Hexyl salicylate, 2-benzylideneheptanal, Linalyl acetate, Methyl cinnamate, Eugenol, Linalool.

*** Changes with regards to the previous version*

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Substances that contribute to the classification

Benzyl benzoate; Cinnamaldehyde

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2.3 Other hazards:

Product does not meet PBT/vPvB criteria
Endocrine-disrupting properties: The product does not meet the criteria.

*** Changes with regards to the previous version*

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Not relevant

3.2 Mixture:

Chemical description: Odoriferous mixture based on natural and/or synthetic ingredients

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification		Concentration
CAS: 120-51-4 EC: 204-402-9 Index: 607-085-00-9 REACH: 01-2119976371-33-XXXX	**Benzyl benzoate(1)**	ATP ATP01	**75 - <100%**
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Chronic 2: H411 - Warning	
CAS: 121-32-4 EC: 204-464-7 Index: Not relevant REACH: 01-2119958961-24-XXXX	**3-ethoxy-4-hydroxybenzaldehyde(1)**	Self-classified	**15 - <25%**
	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	
CAS: 121-33-5 EC: 204-465-2 Index: Not relevant REACH: 01-2119516040-60-XXXX	**Vanillin(1)**	Self-classified	**1 - <2.5%**
	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	
CAS: 91-64-5 EC: 202-086-7 Index: Not relevant REACH: 01-2119949300-45-XXXX	**Coumarin(1)**	Self-classified	**<1%**
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Skin Sens. 1: H317 - Warning	
CAS: 101-86-0 EC: 202-983-3 Index: Not relevant REACH: Not relevant	**Hexyl cinnam-aldehyde(1)**	Self-classified	**<1%**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Sens. 1B: H317 - Warning	
CAS: 54464-57-2 EC: 259-174-3 Index: Not relevant REACH: Not relevant	**1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one(1)**	Self-classified	**<1%**
	Regulation 1272/2008	Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	
CAS: 5989-27-5 EC: 227-813-5 Index: 601-096-00-2 REACH: 01-2119529223-47-XXXX	**d-limonene(1)**	ATP ATP17	**<1%**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger	
CAS: 1222-05-5 EC: 214-946-9 Index: 603-212-00-7 REACH: 01-2119488227-29-XXXX	**1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran(1)**	ATP ATP01	**<1%**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	
CAS: 2050-08-0 EC: 218-080-2 Index: Not relevant REACH: 01-2120771342-58-XXXX	**Pentyl salicylate(1)**	Self-classified	**<1%**
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	

(1) Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ** (continued)

Identification	Chemical name/Classification		Concentration
CAS: 118-58-1 EC: 204-262-9 Index: 607-754-00-5 REACH: 01-2119969442-31-XXXX	**Benzyl salicylate**(1)	Self-classified	**<1%**
	Regulation 1272/2008	Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	
CAS: 80-54-6 EC: 201-289-8 Index: 605-041-00-3 REACH: 01-2119485965-18-XXXX	**2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch**(1)	Self-classified	**<1%**
	Regulation 1272/2008	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Repr. 1B: H360Fd; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger	
CAS: 106-22-9 EC: 203-375-0 Index: Not relevant REACH: 01-2119453995-23-XXXX	**Citronellol**(1)	Self-classified	**<1%**
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 6259-76-3 EC: 228-408-6 Index: 607-772-00-3 REACH: 01-2119638275-36-XXXX	**Hexyl salicylate**(1)	Self-classified	**<1%**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Repr. 2: H361d; Skin Sens. 1B: H317 - Warning	
CAS: 115-95-7 EC: 204-116-4 Index: Not relevant REACH: 01-2119454789-19-XXXX	**Linalyl acetate**(1)	Self-classified	**<1%**
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 122-40-7 EC: 204-541-5 Index: Not relevant REACH: Not relevant	**2-benzylideneheptanal**(1)	Self-classified	**<1%**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Sens. 1: H317 - Warning	
CAS: 103-26-4 EC: 203-093-8 Index: Not relevant REACH: 01-2119979458-16-XXXX	**Methyl cinnamate**(1)	Self-classified	**<1%**
	Regulation 1272/2008	Skin Sens. 1B: H317 - Warning	
CAS: 97-53-0 EC: 202-589-1 Index: Not relevant REACH: 01-2119971802-33-XXXX	**Eugenol**(1)	Self-classified	**<1%**
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	
CAS: 78-70-6 EC: 201-134-4 Index: 603-235-00-2 REACH: 01-2119474016-42-XXXX	**Linalool**(1)	Self-classified	**<1%**
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	
CAS: 104-55-2 EC: 203-213-9 Index: 606-155-00-6 REACH: 01-2119935242-45-XXXX	**Cinnamaldehyde**(1)	Self-classified	**<1%**
	Regulation 1272/2008	Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Warning	

(1) Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

Identification		M-factor	
d-limonene		Acute	1
CAS: 5989-27-5	EC: 227-813-5	Chronic	1

Identification	Specific concentration limit
Cinnamaldehyde CAS: 104-55-2 EC: 203-213-9	% (w/w) >=0,01: Skin Sens. 1A - H317

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute toxicity		Genus
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	LD50 oral	500 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ** (continued)

Identification	Acute toxicity		Genus
Coumarin CAS: 91-64-5 EC: 202-086-7	LD50 oral	500 mg/kg	
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	
Pentyl salicylate CAS: 2050-08-0 EC: 218-080-2	LD50 oral	2000 mg/kg	
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	LD50 oral	1390 mg/kg	
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	

*** Changes with regards to the previous version*

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

May cause an allergic skin reaction. In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes on the skin (stinging, redness, rashes, blisters), seek medical advice with this Safety Data Sheet

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

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SECTION 5: FIREFIGHTING MEASURES (continued)

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EEC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.
Spillages in water or sea:
Small spillages:
Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.
Large spillages:
If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

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SECTION 7: HANDLING AND STORAGE (continued)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 5 ºC

Maximum Temp.: 30 ºC

Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):
There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Benzyl benzoate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 120-51-4	Dermal	Not relevant	Not relevant	2,6 mg/kg	Not relevant
EC: 204-402-9	Inhalation	102 mg/m³	Not relevant	5,1 mg/m³	Not relevant
3-ethoxy-4-hydroxybenzaldehyde	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 121-32-4	Dermal	Not relevant	Not relevant	7 mg/kg	Not relevant
EC: 204-464-7	Inhalation	98 mg/m³	Not relevant	49 mg/m³	Not relevant
Coumarin	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 91-64-5	Dermal	Not relevant	Not relevant	0,79 mg/kg	Not relevant
EC: 202-086-7	Inhalation	Not relevant	Not relevant	6,78 mg/m³	Not relevant
d-limonene	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 5989-27-5	Dermal	Not relevant	Not relevant	9,5 mg/kg	Not relevant
EC: 227-813-5	Inhalation	Not relevant	Not relevant	66,7 mg/m³	Not relevant
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 1222-05-5	Dermal	Not relevant	Not relevant	36,7 mg/kg	Not relevant
EC: 214-946-9	Inhalation	Not relevant	Not relevant	13,5 mg/m³	Not relevant
Pentyl salicylate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 2050-08-0	Dermal	Not relevant	Not relevant	0,9 mg/kg	Not relevant
EC: 218-080-2	Inhalation	Not relevant	Not relevant	3,17 mg/m³	Not relevant
Benzyl salicylate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 118-58-1	Dermal	Not relevant	Not relevant	2,21 mg/kg	Not relevant
EC: 204-262-9	Inhalation	Not relevant	Not relevant	7,8 mg/m³	Not relevant
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 80-54-6	Dermal	Not relevant	Not relevant	1,79 mg/kg	Not relevant
EC: 201-289-8	Inhalation	Not relevant	Not relevant	0,44 mg/m³	Not relevant
Citronellol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 106-22-9	Dermal	Not relevant	Not relevant	327,4 mg/kg	Not relevant
EC: 203-375-0	Inhalation	Not relevant	10 mg/m³	161,6 mg/m³	10 mg/m³
Hexyl salicylate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 6259-76-3	Dermal	Not relevant	Not relevant	6,4 mg/kg	Not relevant
EC: 228-408-6	Inhalation	Not relevant	Not relevant	1,7 mg/m³	Not relevant

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Linalyl acetate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 115-95-7	Dermal	Not relevant	Not relevant	2,5 mg/kg	Not relevant
EC: 204-116-4	Inhalation	Not relevant	Not relevant	2,75 mg/m³	Not relevant
Methyl cinnamate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 103-26-4	Dermal	Not relevant	Not relevant	4 mg/kg	Not relevant
EC: 203-093-8	Inhalation	Not relevant	Not relevant	28,2 mg/m³	Not relevant
Eugenol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 97-53-0	Dermal	Not relevant	Not relevant	6 mg/kg	Not relevant
EC: 202-589-1	Inhalation	Not relevant	Not relevant	21,2 mg/m³	Not relevant
Linalool	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 78-70-6	Dermal	Not relevant	Not relevant	3,5 mg/kg	Not relevant
EC: 201-134-4	Inhalation	Not relevant	Not relevant	24,58 mg/m³	Not relevant
Cinnamaldehyde	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 104-55-2	Dermal	Not relevant	Not relevant	1,75 mg/kg	Not relevant
EC: 203-213-9	Inhalation	Not relevant	Not relevant	6,11 mg/m³	Not relevant

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Benzyl benzoate	Oral	78 mg/kg	Not relevant	0,4 mg/kg	Not relevant
CAS: 120-51-4	Dermal	Not relevant	Not relevant	1,3 mg/kg	Not relevant
EC: 204-402-9	Inhalation	25 mg/m³	Not relevant	1,25 mg/m³	Not relevant
3-ethoxy-4-hydroxybenzaldehyde	Oral	Not relevant	Not relevant	2,5 mg/kg	Not relevant
CAS: 121-32-4	Dermal	Not relevant	Not relevant	2,5 mg/kg	Not relevant
EC: 204-464-7	Inhalation	17,5 mg/m³	Not relevant	8,75 mg/m³	Not relevant
Coumarin	Oral	Not relevant	Not relevant	0,39 mg/kg	Not relevant
CAS: 91-64-5	Dermal	Not relevant	Not relevant	0,39 mg/kg	Not relevant
EC: 202-086-7	Inhalation	Not relevant	Not relevant	1,69 mg/m³	Not relevant
d-limonene	Oral	Not relevant	Not relevant	4,8 mg/kg	Not relevant
CAS: 5989-27-5	Dermal	Not relevant	Not relevant	4,8 mg/kg	Not relevant
EC: 227-813-5	Inhalation	Not relevant	Not relevant	16,6 mg/m³	Not relevant
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	Oral	Not relevant	Not relevant	2,3 mg/kg	Not relevant
CAS: 1222-05-5	Dermal	Not relevant	Not relevant	22 mg/kg	Not relevant
EC: 214-946-9	Inhalation	Not relevant	Not relevant	4 mg/m³	Not relevant
Pentyl salicylate	Oral	Not relevant	Not relevant	0,45 mg/kg	Not relevant
CAS: 2050-08-0	Dermal	Not relevant	Not relevant	0,45 mg/kg	Not relevant
EC: 218-080-2	Inhalation	Not relevant	Not relevant	0,78 mg/m³	Not relevant
Benzyl salicylate	Oral	Not relevant	Not relevant	0,79 mg/kg	Not relevant
CAS: 118-58-1	Dermal	Not relevant	Not relevant	0,79 mg/kg	Not relevant
EC: 204-262-9	Inhalation	Not relevant	Not relevant	1,37 mg/m³	Not relevant
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch	Oral	Not relevant	Not relevant	0,062 mg/kg	Not relevant
CAS: 80-54-6	Dermal	Not relevant	Not relevant	0,89 mg/kg	Not relevant
EC: 201-289-8	Inhalation	Not relevant	Not relevant	0,11 mg/m³	Not relevant
Citronellol	Oral	Not relevant	Not relevant	13,8 mg/kg	Not relevant
CAS: 106-22-9	Dermal	Not relevant	Not relevant	196,4 mg/kg	Not relevant
EC: 203-375-0	Inhalation	Not relevant	10 mg/m³	47,8 mg/m³	10 mg/m³
Hexyl salicylate	Oral	Not relevant	Not relevant	0,3 mg/kg	Not relevant
CAS: 6259-76-3	Dermal	Not relevant	Not relevant	3,2 mg/kg	Not relevant
EC: 228-408-6	Inhalation	Not relevant	Not relevant	0,4 mg/m³	Not relevant

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Linalyl acetate	Oral	Not relevant	Not relevant	0,2 mg/kg	Not relevant
CAS: 115-95-7	Dermal	Not relevant	Not relevant	1,25 mg/kg	Not relevant
EC: 204-116-4	Inhalation	Not relevant	Not relevant	0,68 mg/m³	Not relevant
Methyl cinnamate	Oral	Not relevant	Not relevant	2 mg/kg	Not relevant
CAS: 103-26-4	Dermal	Not relevant	Not relevant	2 mg/kg	Not relevant
EC: 203-093-8	Inhalation	Not relevant	Not relevant	6,96 mg/m³	Not relevant
Eugenol	Oral	Not relevant	Not relevant	3 mg/kg	Not relevant
CAS: 97-53-0	Dermal	Not relevant	Not relevant	3 mg/kg	Not relevant
EC: 202-589-1	Inhalation	Not relevant	Not relevant	5,22 mg/m³	Not relevant
Linalool	Oral	Not relevant	Not relevant	2,49 mg/kg	Not relevant
CAS: 78-70-6	Dermal	Not relevant	Not relevant	1,25 mg/kg	Not relevant
EC: 201-134-4	Inhalation	Not relevant	Not relevant	4,33 mg/m³	Not relevant
Cinnamaldehyde	Oral	Not relevant	Not relevant	0,625 mg/kg	Not relevant
CAS: 104-55-2	Dermal	Not relevant	Not relevant	0,625 mg/kg	Not relevant
EC: 203-213-9	Inhalation	Not relevant	Not relevant	1,09 mg/m³	Not relevant

PNEC:

Identification				
Benzyl benzoate	STP	100 mg/L	Fresh water	0,017 mg/L
CAS: 120-51-4	Soil	2,12 mg/kg	Marine water	0,002 mg/L
EC: 204-402-9	Intermittent	Not relevant	Sediment (Fresh water)	10,66 mg/kg
	Oral	Not relevant	Sediment (Marine water)	1,07 mg/kg
3-ethoxy-4-hydroxybenzaldehyde	STP	10 mg/L	Fresh water	0,118 mg/L
CAS: 121-32-4	Soil	2,923 mg/kg	Marine water	0,012 mg/L
EC: 204-464-7	Intermittent	Not relevant	Sediment (Fresh water)	15 mg/kg
	Oral	Not relevant	Sediment (Marine water)	1,5 mg/kg
Vanillin	STP	10 mg/L	Fresh water	0,118 mg/L
CAS: 121-33-5	Soil	11,54 mg/kg	Marine water	0,012 mg/L
EC: 204-465-2	Intermittent	Not relevant	Sediment (Fresh water)	58,22 mg/kg
	Oral	Not relevant	Sediment (Marine water)	5,822 mg/kg
Coumarin	STP	6,4 mg/L	Fresh water	0,019 mg/L
CAS: 91-64-5	Soil	0,018 mg/kg	Marine water	0,0019 mg/L
EC: 202-086-7	Intermittent	0,0142 mg/L	Sediment (Fresh water)	0,15 mg/kg
	Oral	0,0307 g/kg	Sediment (Marine water)	0,015 mg/kg
d-limonene	STP	1,8 mg/L	Fresh water	0,014 mg/L
CAS: 5989-27-5	Soil	0,763 mg/kg	Marine water	0,0014 mg/L
EC: 227-813-5	Intermittent	Not relevant	Sediment (Fresh water)	3,85 mg/kg
	Oral	0,133 g/kg	Sediment (Marine water)	0,385 mg/kg
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c] pyran	STP	1 mg/L	Fresh water	0,0068 mg/L
CAS: 1222-05-5	Soil	1,5 mg/kg	Marine water	0,00044 mg/L
EC: 214-946-9	Intermittent	Not relevant	Sediment (Fresh water)	2 mg/kg
	Oral	20,4 g/kg	Sediment (Marine water)	0,394 mg/kg
Pentyl salicylate	STP	10 mg/L	Fresh water	0,00077 mg/L
CAS: 2050-08-0	Soil	1,786 mg/kg	Marine water	0,000077 mg/L
EC: 218-080-2	Intermittent	0,0077 mg/L	Sediment (Fresh water)	0,389 mg/kg
	Oral	0,08 g/kg	Sediment (Marine water)	0,039 mg/kg
Benzyl salicylate	STP	10 mg/L	Fresh water	0,001 mg/L
CAS: 118-58-1	Soil	1,41 mg/kg	Marine water	0 mg/L
EC: 204-262-9	Intermittent	0,01 mg/L	Sediment (Fresh water)	0,583 mg/kg
	Oral	0,0527 g/kg	Sediment (Marine water)	0,058 mg/kg

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch	STP	10 mg/L	Fresh water	0,004 mg/L
CAS: 80-54-6	Soil	0,103 mg/kg	Marine water	0 mg/L
EC: 201-289-8	Intermittent	0,024 mg/L	Sediment (Fresh water)	0,528 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,053 mg/kg
Citronellol	STP	580 mg/L	Fresh water	0,002 mg/L
CAS: 106-22-9	Soil	0,004 mg/kg	Marine water	0 mg/L
EC: 203-375-0	Intermittent	0,024 mg/L	Sediment (Fresh water)	0,026 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,003 mg/kg
Hexyl salicylate	STP	10 mg/L	Fresh water	0 mg/L
CAS: 6259-76-3	Soil	0,054 mg/kg	Marine water	0 mg/L
EC: 228-408-6	Intermittent	0,004 mg/L	Sediment (Fresh water)	0,272 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,027 mg/kg
Linalyl acetate	STP	1 mg/L	Fresh water	0,011 mg/L
CAS: 115-95-7	Soil	0,115 mg/kg	Marine water	0,001 mg/L
EC: 204-116-4	Intermittent	0,11 mg/L	Sediment (Fresh water)	0,609 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,061 mg/kg
Methyl cinnamate	STP	1,81 mg/L	Fresh water	0,00276 mg/L
CAS: 103-26-4	Soil	0,013 mg/kg	Marine water	0,000276 mg/L
EC: 203-093-8	Intermittent	0,0276 mg/L	Sediment (Fresh water)	0,074 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,0074 mg/kg
Eugenol	STP	Not relevant	Fresh water	0,00113 mg/L
CAS: 97-53-0	Soil	0,015 mg/kg	Marine water	0,000113 mg/L
EC: 202-589-1	Intermittent	0,0113 mg/L	Sediment (Fresh water)	0,081 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,008 mg/kg
Linalool	STP	10 mg/L	Fresh water	0,2 mg/L
CAS: 78-70-6	Soil	0,327 mg/kg	Marine water	0,02 mg/L
EC: 201-134-4	Intermittent	2 mg/L	Sediment (Fresh water)	2,22 mg/kg
	Oral	0,0078 g/kg	Sediment (Marine water)	0,222 mg/kg
Cinnamaldehyde	STP	7,1 mg/L	Fresh water	0,008 mg/L
CAS: 104-55-2	Soil	0,0156 mg/kg	Marine water	0,0008 mg/L
EC: 203-213-9	Intermittent	0,0321 mg/L	Sediment (Fresh water)	0,101 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,0101 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,…) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Protective gloves against minor risks	CE CAT I		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN ISO 21420:2020 and EN ISO 374-1:2016+A1:2018

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	CE CAT II	EN ISO 16321-1:2022 + EN ISO 16321-3:2022 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	CE CAT I		Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes	CE CAT II	EN ISO 20347:2022/A1:2024	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2022 y EN 13832-1:2019

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	0,86 % weight
V.O.C. density at 20 ºC:	9,6 kg/m³ (9,6 g/L)
Average carbon number:	9,91
Average molecular weight:	150 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 ºC:	Liquid
Appearance:	Characteristic
Colour:	Yellowish
Odour:	Characteristic
Odour threshold:	Not relevant *

Volatility:

Boiling point at atmospheric pressure:	317 ºC
Vapour pressure at 20 ºC:	2 Pa
Vapour pressure at 50 ºC:	11,32 Pa (0,01 kPa)

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Evaporation rate at 20 ºC:	Not relevant *
Product description:	
Density at 20 ºC:	1116,8 kg/m³
Relative density at 20 ºC:	1,107 - 1,127
Dynamic viscosity at 20 ºC:	0 mPa·s
Kinematic viscosity at 20 ºC:	0 mm²/s
Kinematic viscosity at 40 ºC:	Not relevant *
Concentration:	Not relevant *
pH:	7
Relative vapour density at 20 ºC:	Not relevant *
Partition coefficient n-octanol/water 20 ºC:	Not relevant *
Solubility in water at 20 ºC:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *
Flammability:	
Flash Point:	145 ºC
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	220 ºC
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *
Particle characteristics:	
Median equivalent diameter:	Not relevant *

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	26,73 kJ/g
Aerosols-total percentage (by mass) of flammable components:	Not relevant *
Other safety characteristics:	
Surface tension at 20 ºC:	Not relevant *
Refraction index:	1,555 - 1,575

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

- CONTINUED ON NEXT PAGE -



SECTION 10: STABILITY AND REACTIVITY (continued)

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO_2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION **

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

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Causes serious eye irritation.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  IARC: Benzyl acetate (3: Not classifiable as to its carcinogenicity to humans); Coumarin (3: Not classifiable as to its carcinogenicity to humans); Eugenol (3: Not classifiable as to its carcinogenicity to humans); d-limonene (3: Not classifiable as to its carcinogenicity to humans)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

*** Changes with regards to the previous version*

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Benzyl benzoate CAS: 120-51-4 EC: 204-402-9	LD50 oral	500 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
3-ethoxy-4-hydroxybenzaldehyde CAS: 121-32-4 EC: 204-464-7	LD50 oral	3000 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation dust	>5 mg/L	
Vanillin CAS: 121-33-5 EC: 204-465-2	LD50 oral	3300 mg/kg	Rat
	LD50 dermal	2600 mg/kg	
	LC50 inhalation dust	>5 mg/L	
Coumarin CAS: 91-64-5 EC: 202-086-7	LD50 oral	500 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation dust	>5 mg/L	
Hexyl cinnam-aldehyde CAS: 101-86-0 EC: 202-983-3	LD50 oral	3100 mg/kg	Rat
	LD50 dermal	3000 mg/kg	Rabbit
	LC50 inhalation vapour	>20 mg/L	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one CAS: 54464-57-2 EC: 259-174-3	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
d-limonene CAS: 5989-27-5 EC: 227-813-5	LD50 oral	4400 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
Pentyl salicylate CAS: 2050-08-0 EC: 218-080-2	LD50 oral	2000 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
Benzyl salicylate CAS: 118-58-1 EC: 204-262-9	LD50 oral	3031 mg/kg	Rat
	LD50 dermal	14150 mg/kg	Rabbit
	LC50 inhalation vapour	>20 mg/L	
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	LD50 oral	1390 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation vapour	>20 mg/L	
Citronellol CAS: 106-22-9 EC: 203-375-0	LD50 oral	3450 mg/kg	Rat
	LD50 dermal	2650 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
Hexyl salicylate CAS: 6259-76-3 EC: 228-408-6	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	

*** Changes with regards to the previous version*

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

Identification	Acute toxicity		Genus
Linalyl acetate CAS: 115-95-7 EC: 204-116-4	LD50 oral	14500 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation vapour	>20 mg/L	
2-benzylideneheptanal CAS: 122-40-7 EC: 204-541-5	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
Methyl cinnamate CAS: 103-26-4 EC: 203-093-8	LD50 oral	2610 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation dust	>5 mg/L	
Eugenol CAS: 97-53-0 EC: 202-589-1	LD50 oral	2300 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
Linalool CAS: 78-70-6 EC: 201-134-4	LD50 oral	2790 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation vapour	>20 mg/L	
Cinnamaldehyde CAS: 104-55-2 EC: 203-213-9	LD50 oral	2220 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

Other information

Not relevant

*** Changes with regards to the previous version*

SECTION 12: ECOLOGICAL INFORMATION **

The experimental information related to the eco-toxicological properties of the product itself is not available

Toxic to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

Identification		Concentration	Species	Genus
Benzyl benzoate	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 120-51-4	EC50	>1 - 10 mg/L (48 h)		Crustacean
EC: 204-402-9	EC50	>1 - 10 mg/L (72 h)		Algae
Vanillin	LC50	57 mg/L (96 h)	Pimephales promelas	Fish
CAS: 121-33-5	EC50	48,1 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-465-2	EC50	120 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Coumarin	LC50	Not relevant		
CAS: 91-64-5	EC50	30 mg/L (48 h)	Daphnia magna	Crustacean
EC: 202-086-7	EC50	Not relevant		
Hexyl cinnam-aldehyde	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 101-86-0	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 202-983-3	EC50	>0.1 - 1 mg/L (72 h)		Algae
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl) ethan-1-one	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 54464-57-2	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 259-174-3	EC50	>0.1 - 1 mg/L (72 h)		Algae

*** Changes with regards to the previous version*

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification		Concentration	Species	Genus
d-limonene	LC50	0,702 mg/L (96 h)	Pimephales promelas	Fish
CAS: 5989-27-5	EC50	0,577 mg/L (48 h)	Daphnia magna	Crustacean
EC: 227-813-5	EC50	Not relevant		
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	LC50	0,95 mg/L (96 h)	Oryzias latipes	Fish
CAS: 1222-05-5	EC50	0,194 mg/L (48 h)	Daphnia magna	Crustacean
EC: 214-946-9	EC50	0,723 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Pentyl salicylate	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 2050-08-0	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 218-080-2	EC50	>0.1 - 1 mg/L (72 h)		Algae
Benzyl salicylate	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 118-58-1	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: 204-262-9	EC50	>10 - 100 mg/L (72 h)		Algae
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch	LC50	2 mg/L (96 h)	Danio rerio	Fish
CAS: 80-54-6	EC50	11 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-289-8	EC50	29 mg/L (72 h)	Desmodesmus subspicatus	Algae
Hexyl salicylate	LC50	Not relevant		
CAS: 6259-76-3	EC50	0,357 mg/L (48 h)	Daphnia magna	Crustacean
EC: 228-408-6	EC50	0,61 mg/L (72 h)	Desmodesmus subspicatus	Algae
Linalyl acetate	LC50	11 mg/L (96 h)	Cyprinus carpio	Fish
CAS: 115-95-7	EC50	15 mg/L (48 h)	Daphnia magna	Crustacean
EC: 204-116-4	EC50	62 mg/L (72 h)	Desmodesmus subspicatus	Algae
2-benzylideneheptanal	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 122-40-7	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
EC: 204-541-5	EC50	>0.1 - 1 mg/L (72 h)		Algae
Eugenol	LC50	60,8 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 97-53-0	EC50	Not relevant		
EC: 202-589-1	EC50	Not relevant		
Cinnamaldehyde	LC50	2,35 mg/L (96 h)	Danio rerio	Fish
CAS: 104-55-2	EC50	3,21 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-213-9	EC50	31,6 mg/L (72 h)	Desmodesmus subspicatus	Algae

Chronic toxicity:

Identification		Concentration	Species	Genus
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch	NOEC	0,2 mg/L	Pimephales promelas	Fish
CAS: 80-54-6 EC: 201-289-8	NOEC	Not relevant		

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Vanillin	BOD5	Not relevant	Concentration	100 mg/L
CAS: 121-33-5	COD	Not relevant	Period	14 days
EC: 204-465-2	BOD5/COD	Not relevant	% Biodegradable	97 %
Coumarin	BOD5	Not relevant	Concentration	100 mg/L
CAS: 91-64-5	COD	Not relevant	Period	14 days
EC: 202-086-7	BOD5/COD	Not relevant	% Biodegradable	100 %
d-limonene	BOD5	Not relevant	Concentration	10 mg/L
CAS: 5989-27-5	COD	Not relevant	Period	28 days
EC: 227-813-5	BOD5/COD	Not relevant	% Biodegradable	71,4 %
Benzyl salicylate	BOD5	Not relevant	Concentration	100 mg/L
CAS: 118-58-1	COD	Not relevant	Period	28 days
EC: 204-262-9	BOD5/COD	Not relevant	% Biodegradable	93 %

*** Changes with regards to the previous version*

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Degradability		Biodegradability	
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch	BOD5	Not relevant	Concentration	20 mg/L
CAS: 80-54-6	COD	Not relevant	Period	28 days
EC: 201-289-8	BOD5/COD	Not relevant	% Biodegradable	81 %
Citronellol	BOD5	0,52 g O2/g	Concentration	85 mg/L
CAS: 106-22-9	COD	0,86 g O2/g	Period	28 days
EC: 203-375-0	BOD5/COD	0,61	% Biodegradable	Not relevant
Hexyl salicylate	BOD5	Not relevant	Concentration	100 mg/L
CAS: 6259-76-3	COD	Not relevant	Period	28 days
EC: 228-408-6	BOD5/COD	Not relevant	% Biodegradable	91 %
Linalyl acetate	BOD5	Not relevant	Concentration	81 mg/L
CAS: 115-95-7	COD	Not relevant	Period	28 days
EC: 204-116-4	BOD5/COD	Not relevant	% Biodegradable	80 %
Linalool	BOD5	Not relevant	Concentration	2 mg/L
CAS: 78-70-6	COD	Not relevant	Period	28 days
EC: 201-134-4	BOD5/COD	Not relevant	% Biodegradable	64,2 %
Cinnamaldehyde	BOD5	Not relevant	Concentration	100 mg/L
CAS: 104-55-2	COD	Not relevant	Period	28 days
EC: 203-213-9	BOD5/COD	Not relevant	% Biodegradable	86 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
Vanillin	BCF	6
CAS: 121-33-5	Pow Log	1.37
EC: 204-465-2	Potential	Low
Coumarin	BCF	10
CAS: 91-64-5	Pow Log	1.39
EC: 202-086-7	Potential	Low
Hexyl cinnam-aldehyde	BCF	17
CAS: 101-86-0	Pow Log	
EC: 202-983-3	Potential	Low
d-limonene	BCF	
CAS: 5989-27-5	Pow Log	4.83
EC: 227-813-5	Potential	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	BCF	1584
CAS: 1222-05-5	Pow Log	5.9
EC: 214-946-9	Potential	Very High
Benzyl salicylate	BCF	311
CAS: 118-58-1	Pow Log	4
EC: 204-262-9	Potential	High
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch	BCF	275
CAS: 80-54-6	Pow Log	4.2
EC: 201-289-8	Potential	High
Citronellol	BCF	83
CAS: 106-22-9	Pow Log	3.41
EC: 203-375-0	Potential	Moderate
Hexyl salicylate	BCF	98
CAS: 6259-76-3	Pow Log	5.5
EC: 228-408-6	Potential	Moderate
Linalyl acetate	BCF	174
CAS: 115-95-7	Pow Log	3.9
EC: 204-116-4	Potential	High

*** Changes with regards to the previous version*

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Bioaccumulation potential	
Eugenol	BCF	31
CAS: 97-53-0	Pow Log	2.27
EC: 202-589-1	Potential	Moderate
Linalool	BCF	
CAS: 78-70-6	Pow Log	2.9
EC: 201-134-4	Potential	
Cinnamaldehyde	BCF	8
CAS: 104-55-2	Pow Log	2.1
EC: 203-213-9	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Benzyl benzoate	Koc	Not relevant	Henry	Not relevant
CAS: 120-51-4	Conclusion	Not relevant	Dry soil	Not relevant
EC: 204-402-9	Surface tension	4,626E-2 N/m (25 ºC)	Moist soil	Not relevant
3-ethoxy-4-hydroxybenzaldehyde	Koc	Not relevant	Henry	Not relevant
CAS: 121-32-4	Conclusion	Not relevant	Dry soil	Not relevant
EC: 204-464-7	Surface tension	1,87E-2 N/m (276,18 ºC)	Moist soil	Not relevant
Vanillin	Koc	130	Henry	2,128E-4 Pa·m³/mol
CAS: 121-33-5	Conclusion	Very High	Dry soil	Not relevant
EC: 204-465-2	Surface tension	1,622E-2 N/m (292,85 ºC)	Moist soil	Not relevant
Coumarin	Koc	42	Henry	Not relevant
CAS: 91-64-5	Conclusion	Very High	Dry soil	Not relevant
EC: 202-086-7	Surface tension	Not relevant	Moist soil	Not relevant
d-limonene	Koc	6324	Henry	2533,13 Pa·m³/mol
CAS: 5989-27-5	Conclusion	Immobile	Dry soil	Yes
EC: 227-813-5	Surface tension	2,675E-2 N/m (25 ºC)	Moist soil	Yes
Benzyl salicylate	Koc	5623	Henry	Not relevant
CAS: 118-58-1	Conclusion	Immobile	Dry soil	Not relevant
EC: 204-262-9	Surface tension	Not relevant	Moist soil	Not relevant
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch	Koc	1285	Henry	2,52 Pa·m³/mol
CAS: 80-54-6	Conclusion	Low	Dry soil	Yes
EC: 201-289-8	Surface tension	Not relevant	Moist soil	Yes
Citronellol	Koc	70.79	Henry	5,76 Pa·m³/mol
CAS: 106-22-9	Conclusion	High	Dry soil	Yes
EC: 203-375-0	Surface tension	Not relevant	Moist soil	Yes
Hexyl salicylate	Koc	11710	Henry	Not relevant
CAS: 6259-76-3	Conclusion	Immobile	Dry soil	Not relevant
EC: 228-408-6	Surface tension	Not relevant	Moist soil	Not relevant
Linalyl acetate	Koc	518	Henry	177 Pa·m³/mol
CAS: 115-95-7	Conclusion	Low	Dry soil	Yes
EC: 204-116-4	Surface tension	Not relevant	Moist soil	Yes
Linalool	Koc	75	Henry	Not relevant
CAS: 78-70-6	Conclusion	High	Dry soil	Not relevant
EC: 201-134-4	Surface tension	Not relevant	Moist soil	Not relevant
Cinnamaldehyde	Koc	90.78	Henry	Not relevant
CAS: 104-55-2	Conclusion	High	Dry soil	Not relevant
EC: 203-213-9	Surface tension	Not relevant	Moist soil	Not relevant

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

*** Changes with regards to the previous version*

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

12.7 Other adverse effects:

Not described

*** Changes with regards to the previous version*

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Hazardous

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP6 Acute Toxicity

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated
Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2025 and RID 2025:



14.1	**UN number or ID number:**	UN3082
14.2	**UN proper shipping name:**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)
14.3	**Transport hazard class(es):**	9
	Labels:	9
14.4	**Packing group:**	III
14.5	**Environmental hazards:**	Yes
14.6	**Special precautions for user**	
	Special regulations:	274, 335, 375, 601, 650
	Tunnel restriction code:	-
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 L
14.7	**Maritime transport in bulk according to IMO instruments:**	Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 42-24:

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SECTION 14: TRANSPORT INFORMATION (continued)



14.1	**UN number or ID number:**	UN3082
14.2	**UN proper shipping name:**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)
14.3	**Transport hazard class(es):**	9
	Labels:	9
14.4	**Packing group:**	III
14.5	**Marine pollutant:**	Yes
14.6	**Special precautions for user**	
	Special regulations:	375, 335, 274, 969
	EmS Codes:	F-A, S-F
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 L
	Segregation group:	Not relevant
14.7	**Maritime transport in bulk according to IMO instruments:**	Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2026:



14.1	**UN number or ID number:**	UN3082
14.2	**UN proper shipping name:**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)
14.3	**Transport hazard class(es):**	9
	Labels:	9
14.4	**Packing group:**	III
14.5	**Environmental hazards:**	Yes
14.6	**Special precautions for user**	
	Physico-Chemical properties:	see section 9
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:

- Article 95, REGULATION (EU) No 528/2012: *Cinnamaldehyde (104-55-2) - PT: (2)*
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): *2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch (80-54-6)*
- Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on Their Destruction(CWC): Not relevant
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
E2	ENVIRONMENTAL HAZARDS	200,000	500,000

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Shall not be used in:
—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
—tricks and jokes,
—games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

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SECTION 15: REGULATORY INFORMATION (continued)

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):
- New declared substances
  Cinnamaldehyde (104-55-2)

Substances that contribute to the classification (SECTION 2):
- New declared substances
  Cinnamaldehyde (104-55-2)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):
- Hazard statements
- Precautionary statements
- Supplementary information

Texts of the legislative phrases mentioned in section 2:

H317: May cause an allergic skin reaction.
H411: Toxic to aquatic life with long lasting effects.
H302: Harmful if swallowed.
H319: Causes serious eye irritation.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Repr. 1B: H360Fd - May damage fertility. Suspected of damaging the unborn child.
Repr. 2: H361d - Suspected of damaging the unborn child.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Classification procedure:

Skin Sens. 1A: Calculation method
Aquatic Chronic 2: Calculation method
Acute Tox. 4: Calculation method
Eye Irrit. 2: Calculation method

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

*** Changes with regards to the previous version*

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SECTION 16: OTHER INFORMATION ** (continued)

http://echa.europa.eu
http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

*** Changes with regards to the previous version*

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -