

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 10/22/2024 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

: PISTACHIO CRÈME #EU48586F Trade name UFI : 4AJA-A41W-W00W-W6EG

Product code : EU48586F

Type of product : Perfumes, fragrances Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Professional use.Industrial use

Industrial/Professional use spec · Industrial

> For professional use only : Perfumes, fragrances

Use of the substance/mixture Function or use category : Odour agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

FRENCH COLOR & FRAGRANCE International GmbH

Mittlerer Weg 35 DE 79424 Auggen

Germany

T 49-7631-931-8900

SDS@frenchcolor.com, www.frenchcolor.com

1.4. Emergency telephone number

Emergency number : 1-800-255-3924; +01-813-248-0585; China:+400-120-0751; Mexico:+01-800-099-0731;

Brazil: +0-800-591-6042; India: +000-800-100-4086

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 Hazardous to the aquatic environment - Chronic Hazard, H412

Category 3

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects. May cause an allergic skin reaction.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

Contains Hexyl cinnamic aldehyde; benzyl alcohol; Linalool; Vertenex; Neryl acetate; Triplal

(Vertocitral); Aldehyde C-16

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Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P321 - Specific treatment (see supplemental first aid instruction on this label).

: For professional users only.

2.3. Other hazards

Extra phrases

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
benzaldehyde substance with national workplace exposure limit(s) (BG, FI, HU, LT, LV, PL)	CAS-No.: 100-52-7 EC-No.: 202-860-4 EC Index-No.: 605-012-00-5 REACH-no: 01-2119455540-	5 – 10	Acute Tox. 4 (Oral), H302
2(3H)-Furanone, 5-heptyldihydro-	CAS-No.: 104-67-6 EC-No.: 203-225-4 REACH-no: 01-2119959333- 34	4 – 8	Aquatic Chronic 3, H412
Verdox	CAS-No.: 88-41-5 EC-No.: 201-828-7 REACH-no: 01-2119970713- 33	3-6	Aquatic Chronic 2, H411
Hexyl cinnamic aldehyde	CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092- 50	1.5 – 3	Skin Sens. 1, H317 Aquatic Chronic 2, H411
benzyl alcohol substance with national workplace exposure limit(s) (BG, CZ, DE, FI, LT, LV, PL, SI, CH)	CAS-No.: 100-51-6 EC-No.: 202-859-9 EC Index-No.: 603-057-00-5 REACH-no: 01-2119492630-	1 – 2	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016- 42	1 – 2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Anisic aldehyde	CAS-No.: 123-11-5 EC-No.: 204-602-6 REACH-no: 01-2119977101- 43	1 – 2	Aquatic Chronic 3, H412
Vertenex	CAS-No.: 32210-23-4 EC-No.: 250-954-9 REACH-no: 01-2119976286- 24	0.8 – 1.55	Skin Sens. 1B, H317
acetophenone substance with national workplace exposure limit(s) (BE, BG, DK, ES, FI, HU, IE, LT, LV, PL, PT, RO)	CAS-No.: 98-86-2 EC-No.: 202-708-7 EC Index-No.: 606-042-00-1 REACH-no: 01-2119533169- 37	0.5 – 1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
isopentyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, DE, DK, EE, ES, FI, FR, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 123-92-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2 REACH-no: 01-2119548408- 32	0.4 – 0.85	Flam. Liq. 3, H226
Neryl acetate	CAS-No.: 141-12-8 EC-No.: 205-459-2	0.4 – 0.75	Skin Sens. 1B, H317
Triplal (Vertocitral)	CAS-No.: 68039-49-6 EC-No.: 268-264-1	0.2 – 0.45	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
benzyl benzoate	CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371- 33	0.1 – 0.2385	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Ethyl benzoate substance with national workplace exposure limit(s) (RO)	CAS-No.: 93-89-0 EC-No.: 202-284-3	0.1 – 0.15	Not classified
Aldehyde C-16	CAS-No.: 77-83-8 EC-No.: 201-061-8 REACH-no: 01-2119967770- 28	0.1 – 0.15	Skin Sens. 1B, H317 Aquatic Chronic 2, H411

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Get medical advice/attention. on this label). If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

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First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists. Rinse eyes with water as a precaution.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison

center or a doctor if you feel unwell.

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after skin contact May cause an allergic skin reaction.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Sand. Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew

with proper protection. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild

> soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Contaminated work clothing should not be allowed out of the workplace. Wash Hygiene measures

contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep away

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

container closed when not in use. Store in a well-ventilated place. Keep cool. Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : 25 °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Store in a closed container. Packaging materials : Do not store in corrodable metal.

Switzerland

Storage class (LK) : LK 10/12 - Liquids

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

benzaldehyde (100-52-7)	
Bulgaria - Occupational Exposure Limits	
OEL TWA	5 mg/m³
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	4.4 mg/m³
	1 ppm
HTP (OEL C)	17.4 mg/m³
	4 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	5 mg/m³
CK (OEL STEL)	10 mg/m³
Latvia - Occupational Exposure Limits	
OEL TWA	5 mg/m³
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	5 mg/m³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	10 mg/m³

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benzaldehyde (100-52-7)		
NDSCh (OEL STEL)	40 mg/m³	
benzyl alcohol (100-51-6)		
Bulgaria - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Czech Republic - Occupational Exposure Limits		
PEL (OEL TWA)	40 mg/m³	
Finland - Occupational Exposure Limits		
HTP (OEL TWA)	45 mg/m³	
	10 ppm	
Germany - Occupational Exposure Limits (TRGS 90	00)	
AGW (OEL TWA)	22 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
Chemical category	Skin notation	
Latvia - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	5 mg/m³	
OEL chemical category	Skin notation	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	240 mg/m³	
Slovenia - Occupational Exposure Limits		
OEL TWA	22 mg/m³	
	5 ppm	
OEL STEL	44 mg/m³	
	10 ppm	
OEL chemical category	Potential for cutaneous absorption	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA)	22 mg/m³ (aerosol, vapour)	
	5 ppm (aerosol, vapour)	
OEL chemical category	Skin notation	
acetophenone (98-86-2)		
Belgium - Occupational Exposure Limits		
OEL TWA	50 mg/m³	
	10 ppm	
Bulgaria - Occupational Exposure Limits		
OEL TWA	5 mg/m³	

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OEL STEL 49 mg/m² OEL STEL 98 mg/m² OEL STEL 98 mg/m² Finland - Occupational Exposure Limits Variable (Park March	acetophenone (98-86-2)		
OEL STEL 98 mg/m² 20 ppm Finland - Occupational Exposure Limits HTP (OEL TWA) 25 mg/m² 5 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 50 mg/m² 10 ppm OEL STEL 48 mg/m² 10 ppm OEL STEL 147 mg/m² (calculated) 30 ppm (calculated) 30 ppm (calculated) 10 ppm OEL STEL Latvia - Occupational Exposure Limits OEL TWA 5 mg/m² Lithuania - Occupational Exposure Limits OEL TWA 5 mg/m² Lithuania - Occupational Exposure Limits OEL TWA 5 mg/m² NDS (OEL TWA) 5 mg/m² NDS (OEL TWA) 5 mg/m² NDS (OEL STEL) 100 mg/m² NDS (OEL STEL) 100 mg/m² OEL TWA 10 ppm OEL STEL 10 ppm OEL STEL 10 ppm OEL TWA 10 ppm OEL STEL 10 ppm OEL TWA 10 ppm OEL TWA 10 ppm OEL TWA 10 ppm OEL STEL 20 mg/m² 10 ppm OEL STEL 20 mg/m² 10 ppm OEL STEL 30 mg/m² 10 ppm OEL STEL 40 ppm OEL STEL 50 mg/m² 10 ppm OEL STEL 40 ppm OEL STEL 50 mg/m² 10 ppm OEL STEL 40 ppm OEL STEL 50 mg/m² 10 ppm OEL STEL 40 ppm OEL STEL 50 mg/m² 10 ppm OEL STEL 50 mg/m² 10 ppm OEL STEL 40 ppm OEL STEL 50 mg/m² 10 ppm OEL STEL 50 mg/m² 10 ppm USA - ACGIH - Occupational Exposure Limits VLA-ED (OEL TWA) 50 mg/m² 10 ppm USA - ACGIH - Occupational Exposure Limits VLA-ED (OEL TWA) 10 ppm USA - ACGIH - Occupational Exposure Limits VLA-ED (OEL TWA) 10 ppm	Denmark - Occupational Exposure Limits		
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Pinland - Occupational Exposure Limits		10 ppm	
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OEL STEL 200 mg/m³ 41 ppm Spain - Occupational Exposure Limits VLA-ED (OEL TWA) 50 mg/m³ 10 ppm USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 10 ppm isopentyl acetate (123-92-2) EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 270 mg/m³	OEL TWA	100 mg/m³	
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Spain - Occupational Exposure Limits VLA-ED (OEL TWA) 50 mg/m³ 10 ppm USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 10 ppm isopentyl acetate (123-92-2) EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 270 mg/m³	OEL STEL	200 mg/m³	
VLA-ED (OEL TWA) 50 mg/m³ 10 ppm USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 10 ppm isopentyl acetate (123-92-2) EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 270 mg/m³		41 ppm	
USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 10 ppm isopentyl acetate (123-92-2) EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 270 mg/m³	Spain - Occupational Exposure Limits		
USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 10 ppm isopentyl acetate (123-92-2) EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 270 mg/m³	VLA-ED (OEL TWA)	50 mg/m³	
ACGIH OEL TWA 10 ppm isopentyl acetate (123-92-2) EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 270 mg/m³		10 ppm	
isopentyl acetate (123-92-2) EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 270 mg/m³	USA - ACGIH - Occupational Exposure Limits		
EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 270 mg/m³	ACGIH OEL TWA	10 ppm	
IOEL TWA 270 mg/m³	isopentyl acetate (123-92-2)		
	EU - Indicative Occupational Exposure Limit (IOEL)		
50 ppm	IOEL TWA	270 mg/m³	
		50 ppm	

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isopentyl acetate (123-92-2)		
IOEL STEL	540 mg/m³	
	100 ppm	
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	270 mg/m³ (Pentyl acetate (all isomers))	
	50 ppm (Pentyl acetate (all isomers))	
MAK (OEL STEL)	540 mg/m³ (Pentylacetate)	
	100 ppm (Pentylacetate)	
Belgium - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
OEL STEL	540 mg/m³	
	100 ppm	
Bulgaria - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
OEL STEL	540 mg/m³	
	100 ppm	
Croatia - Occupational Exposure Limits		
GVI (OEL TWA)	270 mg/m³	
	50 ppm	
KGVI (OEL STEL)	540 mg/m³	
	100 ppm	
Cyprus - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
OEL STEL	540 mg/m³	
	100 ppm	
Denmark - Occupational Exposure Limits		
OEL TWA	271 mg/m³ (Amyl acetate, all isomers)	
	50 ppm (Amyl acetate, all isomers)	
OEL STEL	540 mg/m³	
	100 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
OEL STEL	540 mg/m³	
	100 ppm	
Finland - Occupational Exposure Limits		
HTP (OEL TWA)	270 mg/m³ (Pentyl acetate)	

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MTP (OEL STEL)	isopentyl acetate (123-92-2)		
Finance - Occupational Exposure Limits Finance - Occupational Exposure Limits 270 mg/m² (restrictive limit) VLE (OEL C/STEL) 540 mg/m² (restrictive limit) OF Exposure Limits (TRCSS 900) 700 mg/m² AGW (OEL TWA) 270 mg/m² OB pam 270 mg/m² OEL TWA 270 mg/m² OEL TWA 50 ppm OEL TWA 50 ppm OEL TWA 500 ppm OEL TWA 500 mg/m² K (OEL TWA) 270 mg/m² OK (OEL STEL) 500 pm OEL TWA 260 mg/m² OK (OEL STEL) 500 pm OEL TWA 500 pm OEL TWA 500 pm OEL STEL 500 pm OEL TWA 500 pm OEL TWA 500 pm		50 ppm (Pentyl acetate)	
France - Occupational Exposure Limits VME (CEL TWA) 270 mg/m² (restrictive limit) 50 ppm (restrictive limit) 50 ppm (restrictive limit) Germany - Occupational Exposure Limits (TRGS 90") AGWI (OEL TWA) 270 mg/m² Gibraltar - Occupational Exposure Limits 70 mg/m² 50 ppm 50 ppm OEL TWA 50 ppm Greece - Occupational Exposure Limits France May 100 ppm OEL STEL 500 mg/m² 60 ppm OEL STEL 500 mg/m² 70 mg/m² France May 100 ppm Pulmagary - Occupational Exposure Limits AGN 09 mg/m² France May 100 ppm Pulmagary - Occupational Exposure Limits France Mg/m² France	HTP (OEL STEL)	540 mg/m³	
VME (OEL TWA) 270 mg/m² (restrictive limit) VLE (OEL C/STEL) 50 ppm (restrictive limit) OGERMANY - Occupational Exposure Limits (TRGS 90) 70 mg/m² AGW (OEL TWA) 270 mg/m² GIDERATER - Occupational Exposure Limits 270 mg/m² 50 ppm 60 mg/m² 61 PMA 270 mg/m² 50 ppm 60 mg/m² 61 PMA 270 mg/m² 62 PM 60 mg/m² 61 PMA 60 mg/m² 62 PM 60 mg/m² 63 PM 60 mg/m² 64 PMA 60 mg/m² 65 PM 60 mg/m² 66 PMA 60 mg/m² 67 PMA 60 mg/m² 68 PM 60 mg/m² 69 PM 60 mg/m² 60 PM 60 mg/m² 60 PM 60 pm 60 pm 60 pm <tr< td=""><td></td><td>100 ppm</td></tr<>		100 ppm	
VLE (OEL C/STEL) 50 pmm (restrictive limit) VLE (OEL C/STEL) 540 mg/m² (restrictive limit) Germany - Occupational Exposure Limits (TRCS 90) 700 mg/m² So ppm 50 ppm Gibraltar - Occupational Exposure Limits 270 mg/m² GEL TWA 270 mg/m² OEL STEL 50 ppm Greece - Occupational Exposure Limits 700 ppm Greece - Occupational Exposure Limits 530 mg/m² OEL STEL 800 mg/m² 100 ppm 100 ppm OEL STEL 800 mg/m² 100 ppm 100 ppm OK (OEL STEL) 540 mg/m² OK (OEL STEL) 540 mg/m² Industrial Exposure Limits 100 ppm OEL TWA 270 mg/m² OEL STEL 50 ppm OEL STEL 100 ppm Italy - Occupational Exposure Limits 70 mg/m² OEL TWA 270 mg/m² OEL TWA	France - Occupational Exposure Limits		
VLE (OEL C/STEL) 540 mg/m² (restrictive limit) Germany - Occupational Exposure Limits (TRCS 907) 270 mg/m² 50 ppm 50 ppm Gibrattar - Occupational Exposure Limits 270 mg/m² 50 ppm 50 ppm OEL TWA 270 mg/m² 60 ppm 50 ppm Greece - Occupational Exposure Limits 530 mg/m² OEL TWA 530 mg/m² 100 ppm 100 ppm OEL STEL 800 mg/m² 100 ppm 100 ppm Hungary - Occupational Exposure Limits KK (OEL STEL) 800 mg/m² 100 ppm 100 ppm CK (OEL STEL) 800 mg/m² CK (OEL STEL) 800 mg/m² Instructional Exposure Limits 270 mg/m² OEL TWA 280 mg/m² 100 ppm 100 ppm Rational Exposure Limits CEL TWA 270 mg/m² 0EL TWA 270 mg/m² 0EL TWA 270 mg/m² 0EL TWA 270 mg/m² 0EL TWA 270 mg/m²	VME (OEL TWA)	270 mg/m³ (restrictive limit)	
Germany - Occupational Exposure Limits (TRGS > 100 mg/m² 100 mg/		50 ppm (restrictive limit)	
Germany - Occupational Exposure Limits (TRGS 500 pm Gibraitar - Occupational Exposure Limits 270 mg/m³ 500 ppm Gibraitar - Occupational Exposure Limits 500 ppm CEL TWA 500 ppm OEL STEL 540 mg/m³ 500 ppm Greece - Occupational Exposure Limits 500 mg/m³ 6100 ppm CEL TWA 500 mg/m³ 6100 ppm DEL STEL 400 mg/m³ 6100 ppm Hungary - Occupational Exposure Limits 540 mg/m³ 6100 ppm K (OEL TWA) 270 mg/m³ 6100 ppm CK (OEL STEL) 540 mg/m³ 6100 ppm Ireland - Occupational Exposure Limits 500 ppm OEL TWA 500 ppm OEL STEL 500 mg/m³ 6100 ppm Italy - Occupational Exposure Limits 500 ppm OEL STEL 500 ppm OEL TWA 500 ppm OEL TWA 500 ppm OEL STEL 500 ppm OEL STEL 500 ppm OEL STEL 600 ppm OEL TWA 500 ppm OEL STEL 600 ppm OEL STEL 600 ppm OEL TWA 600 ppm	VLE (OEL C/STEL)	540 mg/m³ (restrictive limit)	
AGW (OEL TWA) 270 mg/m² 61 braitar - Occupational Exposure Limits 270 mg/m² 62 braitar - Occupational Exposure Limits 270 mg/m² 63 braitar - Occupational Exposure Limits 480 mg/m² 64 cocco - Occupational Exposure Limits 580 mg/m² 64 cocco - Occupational Exposure Limits 580 mg/m² 64 cocco - Occupational Exposure Limits 880 mg/m² 64 coccupational Exposure Limits 880 mg/m² 65 coccupational Exposure Limits 270 mg/m² 65 coccupational Exposure Limits 880 mg/m² 66 coccupational Exposure Limits 880 mg/m² 67 coccupational Exposure Limits 880 mg/m² 68 coccupational Exposure Limits 880 mg/m²		100 ppm (restrictive limit)	
Gibraltar - Occupational Exposure Limits OEL TWA 270 mg/m² 50 ppm 50 ppm OEL STEL 50 ppm 60 mg/m² 100 ppm Greece - Occupational Exposure Limits 530 mg/m² 100 ppm 900 mg/m² 100 ppm 100 mg/m² 150 ppm 100 mg/m² KK (OEL TWA) 270 mg/m² CK (OEL STEL) 540 mg/m² Ireland - Occupational Exposure Limits 50 ppm OEL STEL 50 ppm OEL TWA 70 mg/m² 50 ppm 50 ppm OEL TWA 50 ppm OEL TWA 50 ppm OEL STEL 50 ppm OEL TWA 50 ppm OEL STEL 50 ppm OEL TWA 70 mg/m² 50 ppm 50 ppm	Germany - Occupational Exposure Limits (TRGS 90	00)	
Gibraitar - Occupational Exposure Limits OEL TWA 270 mg/m³ 50 ppm 50 ppm OEL STEL 540 mg/m³ 100 ppm 100 ppm Greece - Occupational Exposure Limits 530 mg/m³ 100 ppm 100 ppm Hungary - Occupational Exposure Limits 270 mg/m³ K(OEL TWA) 270 mg/m³ CK (OEL STEL) 540 mg/m³ Ireland - Occupational Exposure Limits 260 mg/m³ OEL TWA 50 ppm OEL STEL 500 mg/m³ 100 ppm 100 ppm Italy - Occupational Exposure Limits 520 mg/m³ 100 ppm 100 ppm Ataly - Occupational Exposure Limits 50 ppm OEL TWA 540 mg/m³ 100 ppm 100 ppm Del STEL 540 mg/m³ 100 ppm 100 ppm Del TWA 540 mg/m³ 100 ppm 100 ppm Del STEL 540 mg/m³ 100 ppm 100 ppm Del TWA 540 mg/m³ <t< td=""><td>AGW (OEL TWA)</td><td>270 mg/m³</td></t<>	AGW (OEL TWA)	270 mg/m³	
OEL TWA 270 mg/m³ 50 ppm 50 ppm OEL STEL \$40 mg/m³ 100 ppm 100 ppm CEL TWA \$30 mg/m³ 100 ppm 100 ppm CHURSTEL 800 mg/m³ 100 ppm 100 ppm HURGANY - Occupational Exposure Limits 270 mg/m³ CK (OEL TWA) 270 mg/m³ CK (OEL STEL) 50 ppm INSTANDANG 260 mg/m³ 50 ppm LEL TWA 200 mg/m³ 02 Deg mg/m³ 100 ppm LEL TWA 270 mg/m³ 50 ppm 0EL TWA 270 mg/m³ 50 ppm 0EL TWA 50 ppm 0EL STEL 50 mg/m³ 50 ppm 0EL TWA 50 ppm		50 ppm	
So ppm OEL STEL 540 mg/m³ 100 ppm Greece - Occupational Exposure Limits OEL TWA 530 mg/m³ 100 ppm OEL STEL 800 mg/m³ 150 ppm Hungary - Occupational Exposure Limits XK (OEL TWA) 270 mg/m³ CK (OEL STEL) 540 mg/m³ Ireland - Occupational Exposure Limits OEL TWA 260 mg/m³ 50 ppm 200 mg/m³ 100 ppm 100 ppm Italy - Occupational Exposure Limits OEL TWA 270 mg/m³ 50 ppm 50 ppm OEL STEL 540 mg/m³ 50 ppm 50 ppm OEL STEL 540 mg/m³ 100 ppm 100 ppm DEL TWA 10	Gibraltar - Occupational Exposure Limits		
Serece - Occupational Exposure Limits 500 mg/m³ OEL TWA 500 mg/m³ 100 ppm 100 ppm OEL STEL 800 mg/m³ 150 ppm 150 ppm Hungary - Occupational Exposure Limits 270 mg/m³ CK (OEL TWA) 270 mg/m³ CK (OEL STEL) 540 mg/m³ Ireland - Occupational Exposure Limits 260 mg/m³ OEL TWA 50 ppm OEL STEL 520 mg/m³ 100 ppm Italy - Occupational Exposure Limits 270 mg/m³ OEL TWA 270 mg/m³ 50 ppm OEL TWA 270 mg/m³ 50 ppm OEL STEL 540 mg/m³ 100 ppm Latvia - Occupational Exposure Limits OEL TWA 270 mg/m³ 50 ppm Latvia - Occupational Exposure Limits 50 ppm Littuania - Occupational Exposure Limits 50 ppm	OEL TWA	270 mg/m³	
To ppm 100		50 ppm	
Grecc - Occupational Exposure Limits OEL TWA 530 mg/m³ 100 ppm 100 mg/m³ 150 ppm 150 ppm Hungary - Occupational Exposure Limits AK (OEL TWA) 270 mg/m³ CK (OEL STEL) 540 mg/m³ Ireland - Occupational Exposure Limits OEL TWA 60 mg/m³ 50 ppm Italy - Occupational Exposure Limits OEL TWA 60 ppm OEL TWA 60 ppm OEL TWA 60 ppm OEL TWA 60 ppm OEL STEL 60 ppm OEL TWA 70 ppm </td <td>OEL STEL</td> <td>540 mg/m³</td>	OEL STEL	540 mg/m³	
OEL TWA 530 mg/m³ 100 ppm 800 mg/m³ 150 ppm 150 ppm Hungary - Occupational Exposure Limits 270 mg/m³ AK (OEL TWA) 270 mg/m³ CK (OEL STEL) 540 mg/m³ Ireland - Occupational Exposure Limits 260 mg/m³ 50 ppm OEL STEL 520 mg/m³ 100 ppm Italy - Occupational Exposure Limits 270 mg/m³ 50 ppm OEL STEL 540 mg/m³ 100 ppm DEL TWA 540 mg/m³ 100 ppm Latvia - Occupational Exposure Limits 270 mg/m³ DEL TWA 270 mg/m³ 50 ppm 540 mg/m³ 100		100 ppm	
100 ppm OEL STEL 800 mg/m³ Hungary - Occupational Exposure Limits AK (OEL TWA) 270 mg/m³ CK (OEL STEL) 540 mg/m³ Ireland - Occupational Exposure Limits OEL TWA 260 mg/m³ 50 ppm 50 ppm Italy - Occupational Exposure Limits DEL TWA 270 mg/m³ 60 ppm 50 ppm OEL STEL 540 mg/m³ OEL STEL 540 mg/m³ OEL TWA 270 mg/m³ OEL STEL 540 mg/m³ OEL TWA 270 mg/m³ OEL TWA 270 mg/m³ DEL TWA 270 mg/m³ 270 mg/m³	Greece - Occupational Exposure Limits		
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Hungary - Occupational Exposure Limits AK (OEL TWA) 270 mg/m³ CK (OEL STEL) 540 mg/m³ Freland - Occupational Exposure Limits OEL TWA 260 mg/m³ 50 ppm OEL STEL 520 mg/m³ 100 ppm Italy - Occupational Exposure Limits OEL TWA 270 mg/m³ 100 ppm OEL TWA 270 mg/m³ 50 ppm OEL STEL 540 mg/m³ 54		100 ppm	
Hungary - Occupational Exposure Limits AK (OEL TWA) 270 mg/m³ CK (OEL STEL) 540 mg/m³ Ireland - Occupational Exposure Limits OEL TWA 260 mg/m³ 50 ppm OEL STEL 520 mg/m³ 100 ppm Italy - Occupational Exposure Limits OEL TWA 270 mg/m³ 50 ppm OEL STEL 540 mg/m³ 100 ppm Latvia - Occupational Exposure Limits OEL TWA 270 mg/m³ 50 ppm	OEL STEL	800 mg/m³	
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Ireland - Occupational Exposure Limits OEL TWA 260 mg/m³ 50 ppm 50 mg/m³ 100 ppm 100 ppm Italy - Occupational Exposure Limits OEL TWA 270 mg/m³ 50 ppm 50 ppm OEL STEL 540 mg/m³ 100 ppm 100 ppm Latvia - Occupational Exposure Limits OEL TWA 270 mg/m³ 50 ppm 50 ppm	AK (OEL TWA)	270 mg/m³	
OEL TWA 260 mg/m³ 50 ppm OEL STEL 520 mg/m³ 100 ppm Italy - Occupational Exposure Limits 270 mg/m³ OEL TWA 270 mg/m³ 50 ppm OEL STEL 540 mg/m³ 100 ppm Latvia - Occupational Exposure Limits 270 mg/m³ 50 ppm	CK (OEL STEL)	540 mg/m³	
DEL STEL 50 ppm Italy - Occupational Exposure Limits 270 mg/m³ DEL TWA 270 mg/m³ 50 ppm DEL STEL 540 mg/m³ 100 ppm Latvia - Occupational Exposure Limits DEL TWA 270 mg/m³ 50 ppm Lithuania - Occupational Exposure Limits	Ireland - Occupational Exposure Limits		
OEL STEL 520 mg/m³ Italy - Occupational Exposure Limits 270 mg/m³ 50 ppm OEL STEL 540 mg/m³ 100 ppm Latvia - Occupational Exposure Limits 270 mg/m³ 50 ppm	OEL TWA	260 mg/m³	
Italy - Occupational Exposure Limits OEL TWA 270 mg/m³ 50 ppm OEL STEL 540 mg/m³ 100 ppm Latvia - Occupational Exposure Limits OEL TWA 270 mg/m³ 50 ppm Lithuania - Occupational Exposure Limits		50 ppm	
Italy - Occupational Exposure Limits OEL TWA OEL STEL OEL STEL OEL STEL OEL TWA 270 mg/m³ 540 mg/m³ 100 ppm Latvia - Occupational Exposure Limits OEL TWA OEL TWA 270 mg/m³ 50 ppm Lithuania - Occupational Exposure Limits	OEL STEL	520 mg/m³	
OEL TWA 270 mg/m³ 50 ppm OEL STEL 540 mg/m³ 100 ppm Latvia - Occupational Exposure Limits OEL TWA 270 mg/m³ 50 ppm Lithuania - Occupational Exposure Limits		100 ppm	
DEL STEL OEL STEL 50 ppm 540 mg/m³ 100 ppm Latvia - Occupational Exposure Limits OEL TWA 270 mg/m³ 50 ppm Lithuania - Occupational Exposure Limits	Italy - Occupational Exposure Limits		
OEL STEL 540 mg/m³ 100 ppm Latvia - Occupational Exposure Limits OEL TWA 270 mg/m³ 50 ppm Lithuania - Occupational Exposure Limits	OEL TWA	270 mg/m³	
Latvia - Occupational Exposure Limits OEL TWA 270 mg/m³ 50 ppm Lithuania - Occupational Exposure Limits		50 ppm	
Latvia - Occupational Exposure Limits OEL TWA 270 mg/m³ 50 ppm Lithuania - Occupational Exposure Limits	OEL STEL	540 mg/m³	
OEL TWA 270 mg/m³ 50 ppm Lithuania - Occupational Exposure Limits		100 ppm	
50 ppm Lithuania - Occupational Exposure Limits	Latvia - Occupational Exposure Limits		
Lithuania - Occupational Exposure Limits	OEL TWA	270 mg/m³	
		50 ppm	
IPRV (OEL TWA) 270 mg/m³	Lithuania - Occupational Exposure Limits		
	IPRV (OEL TWA)	270 mg/m³	

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isopentyl acetate (123-92-2)		
	50 ppm	
TPRV (OEL STEL)	540 mg/m³	
	100 ppm	
Luxembourg - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
OEL STEL	540 mg/m³	
	100 ppm	
Malta - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
OEL STEL	540 mg/m³	
	100 ppm	
Netherlands - Occupational Exposure Limits		
TGG-15min (OEL STEL)	530 mg/m³	
	98.1 ppm	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	250 mg/m³	
NDSCh (OEL STEL)	500 mg/m³	
Portugal - Occupational Exposure Limits		
OEL TWA	270 mg/m³ (indicative limit value)	
	50 ppm (indicative limit value (Pentyl acetate, all isomers)	
OEL STEL	540 mg/m³ (indicative limit value)	
	100 ppm (indicative limit value)	
Romania - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
OEL STEL	540 mg/m³	
	100 ppm	
Slovakia - Occupational Exposure Limits		
NPHV (OEL TWA)	270 mg/m³	
	50 ppm	
NPHV (OEL C)	540 mg/m³	
Slovenia - Occupational Exposure Limits		
OEL TWA	270 mg/m³	
	50 ppm	
OEL STEL	540 mg/m³	
	100 ppm	

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<u> </u>		
isopentyl acetate (123-92-2)		
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	270 mg/m³ (indicative limit value)	
	50 ppm (indicative limit value)	
VLA-EC (OEL STEL)	540 mg/m³	
	100 ppm	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	270 mg/m³ (Pentyl acetates)	
	50 ppm (Pentyl acetates)	
KGV (OEL STEL)	540 mg/m³ (Pentyl acetates)	
	100 ppm (Pentyl acetates)	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA)	260 mg/m³	
	50 ppm	
Korttidsverdi (OEL STEL)	325 mg/m³ (value calculated)	
	75 ppm (value calculated)	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA)	260 mg/m³ (Pentyl acetate all isomers)	
	50 ppm (Pentyl acetate all isomers)	
KZGW (OEL STEL)	260 mg/m³ (Pentyl acetate all isomers)	
	50 ppm (Pentyl acetate all isomers)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	50 ppm (Pentyl acetate, all isomers)	
ACGIH OEL STEL	100 ppm (Pentyl acetate, all isomers)	
Ethyl benzoate (93-89-0)		
Romania - Occupational Exposure Limits		
OEL TWA	200 mg/m³	
	33 ppm	
OEL STEL	300 mg/m³	
	49 ppm	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Solubility

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Partition coefficient n-octanol/water (Log Kow)

Colour : Conforms to standard.

Odour characteristic. Odour threshold Not available Melting point Not applicable Freezing point Not available Boiling point Not available Flammability : Not applicable Lower explosion limit Not available Upper explosion limit : Not available : 79 °C Flash point Auto-ignition temperature : Not available Decomposition temperature : Not available рΗ : Not available : Not available Viscosity, kinematic

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: Not available

: Not available

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Vapour pressure : 0.005581487 mm Hg (calculated value)

Vapour pressure at 50° C : Not available Density : Not available Relative density : ≈ 0.95 Relative vapour density at 20° C : Not available Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 20.09 % (calculated value)(CARB VOC) (%w/w)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

benzaldehyde (100-52-7)		
LD50 oral rat	1292 mg/kg (Source: JAPAN_GHS)	
LD50 dermal rabbit	> 1250 mg/kg (Source: JAPAN_GHS)	
LC50 Inhalation - Rat	< 5 mg/l/4h	
2(3H)-Furanone, 5-heptyldihydro- (104-67-6)		
LD50 oral rat	18500 mg/kg (Source: NLM_CIP)	
LD50 dermal rat	> 2000 mg/kg (Source: ECHA)	
Verdox (88-41-5)		
LD50 oral rat	4600 mg/kg (Source: NLM_CIP)	
LD50 oral	4600 mg/kg	

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LD50 oral rat	Hexyl cinnamic aldehyde (101-86-0)	
LD50 dermal rabbit > 3000 mg/kg (Source: EPA_HPV)	LD50 oral rat	3100 mg/kg (Source: NLM_CIP)
Lic50 Inhalation - Rat > 5 mg/l/4h	LD50 oral	3100 mg/kg bodyweight
Denzyl alcohol (100-51-6) LD50 oral rat	LD50 dermal rabbit	> 3000 mg/kg (Source: EPA_HPV)
LD50 oral rat 1230 mg/kg (Source: NLM_CIP)	LC50 Inhalation - Rat	> 5 mg/l/4h
Linalool (78-70-6) Linalool (78-70-6)	benzyl alcohol (100-51-6)	
Linalool (78-70-6) 2790 mg/kg Anisic aldehyde (123-11-5) 3210 mg/kg (Source: ECHA) LD50 oral 3210 mg/kg bodyweight LD50 dermal rabbit > 5000 mg/kg (Source: EPA_HPV) LC50 Inhalation - Rat > 0.32 mg/l (Exposure time: 7 h Source: ECHA) Vertenex (32210-23-4) LD50 oral rat 5 g/kg (Source: NLM_CIP) LD50 oral 3370 mg/kg bodyweight LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW) acetophenone (98-86-2) LD50 oral rat 2081 mg/kg (Source: ECHA_API) LD50 oral 500 mg/kg bodyweight LD50 oral 3300 mg/kg (Source: ECHA_API) LD50 dermal rat 3300 mg/kg (Source: ECHA_API) LD50 lonalation - Rat > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)	LD50 oral rat	1230 mg/kg (Source: NLM_CIP)
LD50 oral 2790 mg/kg Anisic aldehyde (123-11-5) 3210 mg/kg (Source: ECHA) LD50 oral rat 3210 mg/kg bodyweight LD50 dermal rabbit > 5000 mg/kg (Source: EPA_HPV) LC50 Inhalation - Rat > 0.32 mg/l (Exposure time: 7 h Source: ECHA) Vertenex (32210-23-4) LD50 oral rat 5 g/kg (Source: NLM_CIP) LD50 oral 3370 mg/kg bodyweight LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW) acetophenone (98-86-2) LD50 oral rat 2081 mg/kg (Source: ECHA_API) LD50 oral 500 mg/kg bodyweight LD50 oral 3300 mg/kg (Source: ECHA_API) LD50 dermal rat 3300 mg/kg (Source: ECHA_API) LC50 Inhalation - Rat > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)	LD50 oral	1570 mg/kg
Anisic aldehyde (123-11-5) LD50 oral rat	Linalool (78-70-6)	
LD50 oral rat 3210 mg/kg (Source: ECHA) LD50 oral 3210 mg/kg bodyweight LD50 dermal rabbit > 5000 mg/kg (Source: EPA_HPV) LC50 Inhalation - Rat > 0.32 mg/l (Exposure time: 7 h Source: ECHA) Vertenex (32210-23-4) LD50 oral rat 5 g/kg (Source: NLM_CIP) LD50 oral 3370 mg/kg bodyweight LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW) acetophenone (98-86-2) LD50 oral rat 2081 mg/kg (Source: ECHA_API) LD50 oral 500 mg/kg bodyweight LD50 dermal rat 3300 mg/kg (Source: ECHA_API) LD50 dermal rat 3300 mg/kg (Source: ECHA_API) LC50 Inhalation - Rat > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)	LD50 oral	2790 mg/kg
LD50 oral 3210 mg/kg bodyweight LD50 dermal rabbit > 5000 mg/kg (Source: EPA_HPV) LC50 Inhalation - Rat > 0.32 mg/l (Exposure time: 7 h Source: ECHA) Vertenex (32210-23-4) LD50 oral rat 5 g/kg (Source: NLM_CIP) LD50 oral 3370 mg/kg bodyweight LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW) acetophenone (98-86-2) LD50 oral rat 2081 mg/kg (Source: ECHA_API) LD50 oral 500 mg/kg bodyweight LD50 dermal rat 3300 mg/kg (Source: ECHA_API) LC50 Inhalation - Rat > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)	Anisic aldehyde (123-11-5)	
LD50 dermal rabbit > 5000 mg/kg (Source: EPA_HPV)	LD50 oral rat	3210 mg/kg (Source: ECHA)
LC50 Inhalation - Rat > 0.32 mg/l (Exposure time: 7 h Source: ECHA) Vertenex (32210-23-4) 5 g/kg (Source: NLM_CIP) LD50 oral 3370 mg/kg bodyweight LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW) acetophenone (98-86-2) LD50 oral rat 2081 mg/kg (Source: ECHA_API) LD50 oral 500 mg/kg bodyweight LD50 dermal rat 3300 mg/kg (Source: ECHA_API) LC50 Inhalation - Rat > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)	LD50 oral	3210 mg/kg bodyweight
Vertenex (32210-23-4) LD50 oral rat 5 g/kg (Source: NLM_CIP) LD50 oral 3370 mg/kg bodyweight LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW) acetophenone (98-86-2) LD50 oral rat 2081 mg/kg (Source: ECHA_API) LD50 oral 500 mg/kg bodyweight LD50 dermal rat 3300 mg/kg (Source: ECHA_API) LC50 Inhalation - Rat > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)	LD50 dermal rabbit	> 5000 mg/kg (Source: EPA_HPV)
LD50 oral rat 5 g/kg (Source: NLM_CIP) LD50 oral 3370 mg/kg bodyweight LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW) acetophenone (98-86-2) LD50 oral rat 2081 mg/kg (Source: ECHA_API) LD50 oral 500 mg/kg bodyweight LD50 dermal rat 3300 mg/kg (Source: ECHA_API) LC50 Inhalation - Rat > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)	LC50 Inhalation - Rat	> 0.32 mg/l (Exposure time: 7 h Source: ECHA)
LD50 oral 3370 mg/kg bodyweight LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW) acetophenone (98-86-2) LD50 oral rat 2081 mg/kg (Source: ECHA_API) LD50 oral 500 mg/kg bodyweight LD50 dermal rat 3300 mg/kg (Source: ECHA_API) LC50 Inhalation - Rat > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)	Vertenex (32210-23-4)	
LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW) acetophenone (98-86-2) 2081 mg/kg (Source: ECHA_API) LD50 oral 500 mg/kg bodyweight LD50 dermal rat 3300 mg/kg (Source: ECHA_API) LC50 Inhalation - Rat > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)	LD50 oral rat	5 g/kg (Source: NLM_CIP)
acetophenone (98-86-2) LD50 oral rat 2081 mg/kg (Source: ECHA_API) LD50 oral 500 mg/kg bodyweight LD50 dermal rat 3300 mg/kg (Source: ECHA_API) LC50 Inhalation - Rat > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)	LD50 oral	3370 mg/kg bodyweight
LD50 oral rat 2081 mg/kg (Source: ECHA_API) LD50 oral 500 mg/kg bodyweight LD50 dermal rat 3300 mg/kg (Source: ECHA_API) LC50 Inhalation - Rat > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)	LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
LD50 oral 500 mg/kg bodyweight LD50 dermal rat 3300 mg/kg (Source: ECHA_API) LC50 Inhalation - Rat > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)	acetophenone (98-86-2)	
LD50 dermal rat 3300 mg/kg (Source: ECHA_API) LC50 Inhalation - Rat > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)	LD50 oral rat	2081 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat > 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)	LD50 oral	500 mg/kg bodyweight
	LD50 dermal rat	3300 mg/kg (Source: ECHA_API)
Neryl acetate (141-12-8)	LC50 Inhalation - Rat	> 2.13 mg/l (Exposure time: 8 h Source: CHEMVIEW)
	Neryl acetate (141-12-8)	
LD50 oral rat > 2000 mg/kg (Source: ECHA)	LD50 oral rat	> 2000 mg/kg (Source: ECHA)
LD50 dermal rabbit > 6 ml/kg (Source: ECHA_API)	LD50 dermal rabbit	> 6 ml/kg (Source: ECHA_API)
Triplal (Vertocitral) (68039-49-6)		
LD50 oral 2330 mg/kg	LD50 oral	2330 mg/kg
benzyl benzoate (120-51-4)	benzyl benzoate (120-51-4)	
LD50 oral rat > 2000 mg/kg (Source: ECHA_API)	LD50 oral rat	> 2000 mg/kg (Source: ECHA_API)
LD50 oral 1160 mg/kg bodyweight	LD50 oral	1160 mg/kg bodyweight
LD50 dermal rabbit 4000 mg/kg (Source: NLM_CIP)	LD50 dermal rabbit	4000 mg/kg (Source: NLM_CIP)
Ethyl benzoate (93-89-0)		
LD50 oral rat 2100 mg/kg (Source: NLM_CIP)	LD50 oral rat	2100 mg/kg (Source: NLM_CIP)
Aldehyde C-16 (77-83-8)	Aldehyde C-16 (77-83-8)	
LD50 oral rat 5470 mg/kg (Source: NLM_CIP)	LD50 oral rat	5470 mg/kg (Source: NLM_CIP)
LD50 dermal rat > 2000 mg/kg (Source: ECHA_API)	LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

benzyl benzoate (120-51-4)

Viscosity, kinematic 7.456 mm²/s

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects.

(chronic)

()		
benzaldehyde (100-52-7)		
LC50 - Fish [1]	10.6 – 11.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)	
LC50 - Fish [2]	12.69 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: IUCLID)	
2(3H)-Furanone, 5-heptyldihydro- (104-67-6)		
LC50 - Fish [1]	569 mg/l 96 h	
EC50 - Crustacea [1]	5.85 mg/l 48 h	
EC50 - Other aquatic organisms [1]	5.94 mg/l 72 h	
benzyl alcohol (100-51-6)		
LC50 - Fish [1]	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)	
LC50 - Fish [2]	10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)	
EC50 - Crustacea [1]	23 mg/l (Exposure time: 48 h - Species: water flea)	
Linalool (78-70-6)		
EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)	
Vertenex (32210-23-4)		
LC50 - Fish [1]	8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static] Source: ECHA)	
acetophenone (98-86-2)		
LC50 - Fish [1]	162 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)	

Safety Data Sheet

Neryl acetate (141-12-8)

Persistence and degradability

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878	
acetophenone (98-86-2)	
LC50 - Fish [2]	155 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
benzyl benzoate (120-51-4)	
LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
NOEC (chronic)	0.168 mg/l
Ethyl benzoate (93-89-0)	
LC50 - Fish [1]	6.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
Aldehyde C-16 (77-83-8)	
LC50 - Fish [1]	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)
12.2. Persistence and degradability	
PISTACHIO CRÈME #EU48586F	
Persistence and degradability	Not established.
benzaldehyde (100-52-7)	
Persistence and degradability	Rapidly degradable
2(3H)-Furanone, 5-heptyldihydro- (104-67-6)	
Persistence and degradability	Rapidly degradable
Verdox (88-41-5)	
Persistence and degradability	Rapidly degradable
Hexyl cinnamic aldehyde (101-86-0)	
Persistence and degradability	Rapidly degradable
benzyl alcohol (100-51-6)	
Persistence and degradability	Rapidly degradable
Linalool (78-70-6)	
Persistence and degradability	Rapidly degradable
Anisic aldehyde (123-11-5)	
Persistence and degradability	Rapidly degradable
Vertenex (32210-23-4)	
Persistence and degradability	Rapidly degradable
acetophenone (98-86-2)	
Persistence and degradability	Rapidly degradable
isopentyl acetate (123-92-2)	
Persistence and degradability	Rapidly degradable

Rapidly degradable

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Persistence and degradability berzyt benzoate (120-51-4) Persistence and degradability May cause long-term adverse effects in the environment. Ethyl benzoate (32-89-0) Persistence and degradability Rapidly degradabile Aldehyde C-16 (77-83-8) Persistence and degradability Rapidly degradabile 12.3. Bloaccumulative potential PISTACHIO CREME #EU48585F Bloaccumulative potential Not established. benzaldehyde (100-52-7) BCF - Fish [1] (no significant bioaccumulation) Partition coefficient n-octanol/water (Log Pow) (1.4 at 25 °C) 2(3H)-Furanone, 5-heptyldihydro- (104-67-6) Partition coefficient n-octanol/water (Log Pow) (1.56 (at 25 °C) (at pH > 7.9-48.25) Vertenex (32210-23-4) Partition coefficient n-octanol/water (Log Pow) (1.58 (at 25 °C) (at pH > 7.9-48.25) Vertenex (32210-23-4) Partition coefficient n-octanol/water (Log Pow) (1.53 – 1.65 (at 25 °C) (at pH > 7.9-48.25) Vertenex (32210-23-4) Partition coefficient n-octanol/water (Log Pow) (1.53 – 1.65 (at 25 °C) (at pH > 7.9-48.25) Vertenex (32210-23-4) Partition coefficient n-octanol/water (Log Pow) (1.53 – 1.65 (at 25 °C) (at pH > 7.9-48.25) Partition coefficient n-octanol/water (Log Pow) (1.53 – 1.65 (at 25 °C) (at pH > 7.9-48.25) Partition coefficient n-octanol/water (Log Pow) (1.53 – 1.65 (at 25 °C) (at pH > 7.9-48.25) Partition coefficient n-octanol/water (Log Pow) (1.53 – 1.65 (at 25 °C) (at pH > 7.9-48.25) Partition coefficient n-octanol/water (Log Pow) (1.53 – 1.65 (at 25 °C) (at pH = 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) (1.59 (at 25 °C) (at pH = 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) (1.59 (at 25 °C) (at pH = 7.7) Aldehyde C-16 (77-83-8) Partition coefficient n-octanol/water (Log Pow) (2.59 (at 25.8°C) (at pH = 7.7) Aldehyde C-16 (77-83-8) Partition coefficient n-octanol/water (Log Pow) (2.59 (at 25.8°C) (at pH = 7.7) Aldehyde C-16 (77-83-8) Partition coefficient n-octanol/water (Log Pow) (2.59 (at 25.8°C) (at pH = 7.7)	Triplal (Vertocitral) (68039-49-6)	
Persistence and degradability May cause long-term adverse effects in the environment. Ethyl benzoate (93-89-0) Persistence and degradability Rapidly degradable Aldehyde C-16 (77-83-8) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential PISTACHIO CRÉME #EU48586F Bioaccumulative potential Not established. benzaldehyde (100-52-7) BCF - Fish (1) (no significant bioaccumulation) Partition coefficient n-octanol/water (Log Pow) 1.4 (at 25 °C) 2(3H)-Furanone, 5-heptyldihydro- (104-67-6) Partition coefficient n-octanol/water (Log Pow) 3.6 (at 25 °C) benzyl alcohol (100-51-6) Partition coefficient n-octanol/water (Log Pow) 1.05 Anisic aldehyde (123-11-5) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C) (at pH > 7.9-48.25) Vertenex (32210-23-4) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C) acctophenone (88-86-2) Partition coefficient n-octanol/water (Log Pow) 5.83 - 1.65 isopentyl acctate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Neryl acctate (121-92-94-9) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Persistence and degradability	Rapidly degradable
Ethyl bonzoate (93-89-0) Persistence and degradability Rapidly degradable Aldehyde C-16 (77-83-8) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential PISTACHIO CREME #EU48586F Bioaccumulative potential Not established. benzaldehyde (100-52-7) BCF - Fish [1] (no significant bioaccumulation) Partition coefficient n-actanol/water (Log Pow) 1.4 (at 25 °C) 2(3H)-Furanone, 5-hoptyldihydro-(104-67-6) Partition coefficient n-actanol/water (Log Pow) 3.6 (at 25 °C) benzyl alcohol (100-51-6) Partition coefficient n-actanol/water (Log Pow) 1.05 Anisic aldehyde (123-11-5) Partition coefficient n-actanol/water (Log Pow) 4.8 (at 25 °C) vertenex (32210-23-4) Partition coefficient n-actanol/water (Log Pow) 1.55 (at 25 °C) acctophenoe (98-86-2) Partition coefficient n-actanol/water (Log Pow) 1.63 – 1.65 isopentyl acctate (123-92-2) Partition coefficient n-actanol/water (Log Pow) 2.7 (at 35 °C) Noryl acctate (141-12-8) Partition coefficient n-actanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (140-51-4) Partition coefficient n-actanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-actanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	benzyl benzoate (120-51-4)	
Persistence and degradability Rapidly degradable Aldehyde C-16 (77-83-8) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential PISTACHIC CRÈME #EU48586F Bioaccumulative potential Not established. benzaldehyde (100-52-7) BCF - Fish [1] (no significant bioaccumulation) Partition coefficient n-octanoliwater (Log Pow) 1.4 (at 25 °C) 2(3H)-Furanone, 5-heptyldihydro- (104-67-6) Partition coefficient n-octanoliwater (Log Pow) 3.6 (at 25 °C) benzyl alcohol (100-51-6) Partition coefficient n-octanoliwater (Log Pow) 1.05 Anisto aldehyde (123-11-5) Partition coefficient n-octanoliwater (Log Pow) 1.56 (at 25 °C (at pH > 7.9 < 8.25) Vertenex (32210-23-4) Partition coefficient n-octanoliwater (Log Pow) 4.8 (at 25 °C) acetophenone (98-86-2) Partition coefficient n-octanoliwater (Log Pow) 1.63 – 1.65 isopentyl acetate (123-92-2) Partition coefficient n-octanoliwater (Log Pow) 2.7 (at 35 °C) Neryl acetate (141-12-8) Partition coefficient n-octanoliwater (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanoliwater (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-99-0) Partition coefficient n-octanoliwater (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Persistence and degradability	May cause long-term adverse effects in the environment.
Aldehyde C-16 (77-83-8) Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential PISTACHIO CRÈME #EU48586F Bioaccumulative potential Not established. benzaldehyde (100-52-7) BCF - Fish [1] (no significant bioaccumulation) Partition coefficient n-octanol/water (Log Pow) 1.4 (at 25 °C) 2(3H)-Furanone, 5-heptyldihydro- (104-67-6) Partition coefficient n-octanol/water (Log Pow) 3.6 (at 25 °C) benzyl alcohol (100-51-6) Partition coefficient n-octanol/water (Log Pow) 1.05 Anisic aldehyde (123-11-5) Partition coefficient n-octanol/water (Log Pow) 1.56 (at 25 °C (at pH >7.9-<8.25) Vertenex (32210-23-4) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C) acetophenone (98-86-2) Partition coefficient n-octanol/water (Log Pow) 1.63 – 1.65 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Neryl acetate (141-12-8) Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (141-12-8) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Ethyl benzoate (93-89-0)	
Persistence and degradability Rapidly degradable 12.3. Bioaccumulative potential PISTACHIO CRÈME #EU48586F Bioaccumulative potential Not established. benzaldehyde (100-52-7) BCF - Fish [1] (no significant bioaccumulation) Partition coefficient n-octanol/water (Log Pow) 1.4 (at 25 °C) 2(3H)-Furanone, 5-heptyldihydro- (104-67-6) Partition coefficient n-octanol/water (Log Pow) 3.6 (at 25 °C) benzyl alcohol (100-51-6) Partition coefficient n-octanol/water (Log Pow) 1.05 Anisic aldehyde (123-11-5) Partition coefficient n-octanol/water (Log Pow) 1.56 (at 25 °C (at pH > 7.9-<8.25) Vertenex (32210-23-4) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C) acetophenone (98-86-2) Partition coefficient n-octanol/water (Log Pow) 1.63 – 1.65 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Neryl acetate (141-12-8) Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Persistence and degradability	Rapidly degradable
PISTACHIO CRÈME #EU48586F Bioaccumulative potential Not established. benzaldehyde (100-52-7) BCF - Fish [1] (no significant bioaccumulation) Partition coefficient n-octanol/water (Log Pow) 1.4 (at 25 °C) 2(3H)-Furanone, 5-heptyldihydro- (104-67-6) Partition coefficient n-octanol/water (Log Pow) 3.6 (at 25 °C) benzyl alcohol (100-51-6) Partition coefficient n-octanol/water (Log Pow) 1.05 Anisic aldehyde (123-11-5) Partition coefficient n-octanol/water (Log Pow) 1.56 (at 25 °C (at pH > 7.9-<8.25) Vertenex (32210-23-4) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C) acetophenone (98-86-2) Partition coefficient n-octanol/water (Log Pow) 1.63 – 1.65 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Aldehyde C-16 (77-83-8)	
PISTACHIO CRÈME #EU48586F Bioaccumulative potential Not established. benzaldehyde (100-52-7) BCF - Fish [1] (no significant bioaccumulation) Partition coefficient n-octanol/water (Log Pow) 1.4 (at 25 °C) 2(3H)-Furanone, 5-heptyldihydro- (104-67-68) Partition coefficient n-octanol/water (Log Pow) 3.6 (at 25 °C) benzyl alcohol (100-51-6) Partition coefficient n-octanol/water (Log Pow) 1.05 Anisic aldehyde (123-11-5) Partition coefficient n-octanol/water (Log Pow) 1.56 (at 25 °C (at pH > 7.9-<8.25) Vertenex (32210-23-4) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C) acetophenone (98-86-2) Partition coefficient n-octanol/water (Log Pow) 1.63 – 1.65 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Neryl acetate (141-12-8) Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Persistence and degradability	Rapidly degradable
Bioaccumulative potential Not established. benzaldehyde (100-52-7) BCF - Fish [1] (no significant bioaccumulation) Partition coefficient n-octanol/water (Log Pow) 1.4 (at 25 °C) 2(3H)-Furanone, 5-heptyldihydro- (104-67-6) Partition coefficient n-octanol/water (Log Pow) 3.6 (at 25 °C) benzyl alcohol (100-51-6) Partition coefficient n-octanol/water (Log Pow) 1.05 Anisic aldehyde (123-11-5) Partition coefficient n-octanol/water (Log Pow) 1.56 (at 25 °C (at pH > 7.9 -< 8.25) Vertenex (32210-23-4) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C) acetophenone (98-86-2) Partition coefficient n-octanol/water (Log Pow) 1.63 – 1.65 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Neryl acetate (141-12-8) Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	12.3. Bioaccumulative potential	
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Partition coefficient n-octanol/water (Log Pow) 2(3H)-Furanone, 5-heptyldihydro- (104-67-6) Partition coefficient n-octanol/water (Log Pow) 3.6 (at 25 °C) benzyl alcohol (100-51-6) Partition coefficient n-octanol/water (Log Pow) 1.05 Anisic aldehyde (123-11-5) Partition coefficient n-octanol/water (Log Pow) 1.56 (at 25 °C (at pH > 7.9-<8.25) Vertenex (32210-23-4) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C) acetophenone (98-86-2) Partition coefficient n-octanol/water (Log Pow) 1.63 – 1.65 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Neryl acetate (141-12-8) Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-88-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	benzaldehyde (100-52-7)	
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Partition coefficient n-octanol/water (Log Pow) Anisic aldehyde (123-11-5) Partition coefficient n-octanol/water (Log Pow) Vertenex (32210-23-4) Partition coefficient n-octanol/water (Log Pow) 4.8 (at 25 °C) acetophenone (98-86-2) Partition coefficient n-octanol/water (Log Pow) 1.63 – 1.65 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Neryl acetate (141-12-8) Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Partition coefficient n-octanol/water (Log Pow)	3.6 (at 25 °C)
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Vertenex (32210-23-4) Partition coefficient n-octanol/water (Log Pow) acetophenone (98-86-2) Partition coefficient n-octanol/water (Log Pow) 1.63 – 1.65 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Neryl acetate (141-12-8) Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Anisic aldehyde (123-11-5)	
Partition coefficient n-octanol/water (Log Pow) acetophenone (98-86-2) Partition coefficient n-octanol/water (Log Pow) 1.63 – 1.65 isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Neryl acetate (141-12-8) Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Partition coefficient n-octanol/water (Log Pow)	1.56 (at 25 °C (at pH >7.9-<8.25)
acetophenone (98-86-2) Partition coefficient n-octanol/water (Log Pow) isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) Neryl acetate (141-12-8) Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Vertenex (32210-23-4)	
Partition coefficient n-octanol/water (Log Pow) isopentyl acetate (123-92-2) Partition coefficient n-octanol/water (Log Pow) Neryl acetate (141-12-8) Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Partition coefficient n-octanol/water (Log Pow)	4.8 (at 25 °C)
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Partition coefficient n-octanol/water (Log Pow) 2.7 (at 35 °C) Neryl acetate (141-12-8) Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Partition coefficient n-octanol/water (Log Pow)	1.63 – 1.65
Neryl acetate (141-12-8) Partition coefficient n-octanol/water (Log Pow) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	isopentyl acetate (123-92-2)	
Partition coefficient n-octanol/water (Log Pow) 3.98 (at 37 °C (at pH 7.2) benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Partition coefficient n-octanol/water (Log Pow)	2.7 (at 35 °C)
benzyl benzoate (120-51-4) Partition coefficient n-octanol/water (Log Pow) 3.97 (at 25 °C) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Neryl acetate (141-12-8)	
Partition coefficient n-octanol/water (Log Pow) Bioaccumulative potential Not established. Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Partition coefficient n-octanol/water (Log Pow)	3.98 (at 37 °C (at pH 7.2)
Bioaccumulative potential Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) Aldehyde C-16 (77-83-8)	benzyl benzoate (120-51-4)	
Ethyl benzoate (93-89-0) Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Partition coefficient n-octanol/water (Log Pow)	3.97 (at 25 °C)
Partition coefficient n-octanol/water (Log Pow) 2.59 (at 22.8 °C (at pH 6-7) Aldehyde C-16 (77-83-8)	Bioaccumulative potential	Not established.
Aldehyde C-16 (77-83-8)	Ethyl benzoate (93-89-0)	
	Partition coefficient n-octanol/water (Log Pow)	2.59 (at 22.8 °C (at pH 6-7)
Partition coefficient n-octanol/water (Log Pow) 2.4 (at 25 °C (cis isomer)	Aldehyde C-16 (77-83-8)	
	Partition coefficient n-octanol/water (Log Pow)	2.4 (at 25 °C (cis isomer)

12.4. Mobility in soil

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Product/Packaging disposal recommendations

Ecological information

HP Code

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Dispose in a safe manner in accordance with local/national regulations.
- : Avoid release to the environment.
- : HP4 "Irritant skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.3. Transport hazard o	class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.5. Environmental haz	ards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
lo supplementary informatio	n available			

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (RE	EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description	
3(a)	isopentyl acetate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	
3(b)	PISTACHIO CRÈME #EU48586F; benzaldehyde; Hexyl cinnamic aldehyde; benzyl alcohol; Linalool; Vertenex; acetophenone; Neryl acetate; Triplal (Vertocitral); benzyl benzoate; Aldehyde C-16	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	
3(c)	PISTACHIO CRÈME #EU48586F; 2(3H)- Furanone, 5- heptyldihydro-; Verdox; Hexyl cinnamic aldehyde; Anisic aldehyde; Triplal (Vertocitral); benzyl benzoate; Aldehyde C-16	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	
40.	isopentyl acetate	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

VOC Directive (2004/42)

: 20.09 % (calculated value)(CARB VOC) (%w/w) VOC content

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

France

Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

Hazardous Incident Ordinance (12. BlmSchV) Is not subject to the Hazardous Incident Ordinance (12. BlmSchV)

Netherlands

ABM category : A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic

: Triplal (Vertocitral) is listed

environment

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen : Triplal (Vertocitral) is listed

SZW-lijst van reprotoxische stoffen - Borstvoeding

: None of the components are listed : None of the components are listed

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen - Ontwikkeling

: None of the components are listed

Denmark

Class for fire hazard : Class III-1 Store unit · 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines

for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.