

Safety Data Sheet

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

Issue date: 8/11/2023

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

1.1. Product identifier

Product form : Mixture

Product name : MILK & HONEY #EU24302F UFI : WF95-92MR-2005-A5GS

Product code : EU24302F

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

Industrial/Professional use spec : Industrial

For professional use only Use of the substance/mixture : Perfumes, fragrances

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]

Acute toxicity (oral), Category 4 H302 H319 Serious eye damage/eye irritation, Category 2 H317 Skin sensitisation, Category 1 H350 Carcinogenicity, Category 1B Hazardous to the aquatic environment - Chronic Hazard, Category 2 H411

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07





GHS08

GHS09

Signal word (CLP)

Contains

Benzyl benzoate; Benzyl salicylate; Majantol; Mayol; Hydroxy; Benzaldehyde; Isoeugenol;

Damascenone Total; Acetaldehyde

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Hazard statements (CLP) : H302 - Harmful if swallowed.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H350 - May cause cancer.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.

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

Extra phrases : Restricted to professional users.

For professional users only.

2.3. Other hazards

Contains no PBT/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 is 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]
Benzyl benzoate	CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371- 33	32.5 – 64.9	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Verdox	CAS-No.: 88-41-5 EC-No.: 201-828-7 REACH-no: 01-2119970713- 33	4 – 8	Aquatic Chronic 2, H411
Benzyl salicylate	CAS-No.: 118-58-1 EC-No.: 204-262-9 EC Index-No.: 607-754-00-5 REACH-no: 01-2119969442- 31	4 – 8	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Majantol	CAS-No.: 103694-68-4 EC-No.: 403-140-4 EC Index-No.: 603-138-00-5	0.023 – 4.6	Skin Sens. 1, H317 Aquatic Chronic 3, H412
Arova N	CAS-No.: 54982-83-1 EC-No.: 259-423-6	0.0023 – 4.6	Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Carbitol substance with national workplace exposure limit(s) (AT, DE, EE, SE, SI, CH)	CAS-No.: 111-90-0 EC-No.: 203-919-7 REACH-no: 01-2119475105- 42	1.66359 – 3.32718	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aldehyde C-14	CAS-No.: 104-67-6 EC-No.: 203-225-4 REACH-no: 01-2119959333- 34	1.5 – 3	Aquatic Chronic 3, H412
Ethyl vanillin	CAS-No.: 121-32-4 EC-No.: 204-464-7 REACH-no: 01-211958961-24	1.5 – 3	Eye Irrit. 2, H319
Anisic aldehyde	CAS-No.: 123-11-5 EC-No.: 204-602-6 REACH-no: 01-2119977101- 43	0.9 – 1.8	Aquatic Chronic 3, H412
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-	0.8 – 1.5	Acute Tox. 4 (Oral), H302
Mayol	CAS-No.: 13828-37-0 EC-No.: 237-539-8	0.023 – 0.46	Skin Sens. 1B, H317 Skin Irrit. 2, H315
Hydroxy	CAS-No.: 107-75-5 EC-No.: 203-518-7 REACH-no: 01-2119973482- 31	0.17802 – 0.35604	Eye Irrit. 2, H319 Skin Sens. 1B, H317
Isoeugenol	CAS-No.: 97-54-1 EC-No.: 202-590-7 EC Index-No.: 604-094-00-X; 202-590-1 REACH-no: 17-2119417630-49	0.1 – 0.2	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 STOT SE 3, H335
Damascenone Total	CAS-No.: 23696-85-7 EC-No.: 245-833-2	0.1 – 0.1	Skin Sens. 1, H317 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 – 0.1	Not classified
Ethyl alcohol substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SI, SK, NO, CH)	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5	0.1 – 0.1	Flam. Liq. 2, H225
Acetaldehyde substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SI, SK, NO, CH)	CAS-No.: 75-07-0 EC-No.: 200-836-8 EC Index-No.: 605-003-00-6	0.1 – 0.1	Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335
.alphaPinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO)	CAS-No.: 80-56-8 EC-No.: 201-291-9	0.01 – 0.025	Flam. Liq. 3, H226
.betaPinene substance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO)	CAS-No.: 127-91-3 EC-No.: 204-872-5	0.01 – 0.025	Flam. Liq. 3, H226

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
d-Limonene substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH)	CAS-No.: 5989-27-5 EC-No.: 205-341-0 EC Index-No.: 601-096-00-2 REACH-no: 01-2119493353- 35	0.005 - 0.01	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
p-Cymene substance with national workplace exposure limit(s) (DK, EE, LT, LV, SE)	CAS-No.: 99-87-6 EC-No.: 202-796-7 EC Index-No.: 601-094-00-1	0.001 - 0.005	Flam. Liq. 3, H226 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 Repr. 2, H361 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Isoeugenol	CAS-No.: 97-54-1 EC-No.: 202-590-7 EC Index-No.: 604-094-00-X; 202-590-1 REACH-no: 17-2119417630-	(0.01 ≤C ≤ 100) Skin Sens. 1A, H317

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

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

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.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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

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5.2. Special hazards arising from the substance or mixture

No additional information available

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

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 : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : 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.

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.

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.

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

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Carbitol (111-90-0)		
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	35 mg/m³	
MAK (OEL TWA) [ppm]	6 ppm	
MAK (OEL STEL)	140 mg/m³	
MAK (OEL STEL) [ppm]	24 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA	50.1 mg/m³	
OEL TWA [ppm]	10 ppm	
OEL chemical category	Skin notation	
Germany - Occupational Exposure Limits (TRGS 90	00)	
AGW (OEL TWA) [1]	35 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
AGW (OEL TWA) [2]	6 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
Slovenia - Occupational Exposure Limits		
OEL TWA	35 mg/m³	
OEL TWA [ppm]	6 ppm	
OEL STEL	70 mg/m³	
OEL STEL [ppm]	12 ppm	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	80 mg/m³	
NGV (OEL TWA) [ppm]	15 ppm	
KTV (OEL STEL)	170 mg/m³	
KTV (OEL STEL) [ppm]	30 ppm	
OEL chemical category	Skin notation	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA) [1]	50 mg/m³ (aerosol, inhalable dust, vapour)	
KZGW (OEL STEL)	100 mg/m³ (aerosol, inhalable dust, vapour)	
Benzaldehyde (100-52-7)		
Bulgaria - Occupational Exposure Limits		
OEL TWA	5 mg/m³	
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	4.4 mg/m³	
HTP (OEL TWA) [2]	1 ppm	
HTP (OEL C)	17.4 mg/m³	
HTP (OEL C) [ppm]]	4 ppm	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	5 mg/m³	
CK (OEL STEL)	10 mg/m³	

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Benzaldehyde (100-52-7)	
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
NDSCh (OEL STEL)	40 mg/m³
.alphaPinene (80-56-8)	
Belgium - Occupational Exposure Limits	
OEL TWA [ppm]	20 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	150 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
OEL TWA [ppm]	25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
OEL STEL	300 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
OEL STEL [ppm]	50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	150 mg/m³
IPRV (OEL TWA) [ppm]	25 ppm
TPRV (OEL STEL)	300 mg/m³
TPRV (OEL STEL) [ppm]	50 ppm
Portugal - Occupational Exposure Limits	
OEL TWA [ppm]	20 ppm (Turpentine and selected Monoterpenes)
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	113 mg/m³
VLA-ED (OEL TWA) [2]	20 ppm
OEL chemical category	Sensitizer
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	150 mg/m³
NGV (OEL TWA) [ppm]	25 ppm
KTV (OEL STEL)	300 mg/m³
KTV (OEL STEL) [ppm]	50 ppm
OEL chemical category	Sensitizer
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	140 mg/m³
Grenseverdi (OEL TWA) [2]	25 ppm

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.alphaPinene (80-56-8)			
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)		
Korttidsverdi (OEL STEL) [ppm]	37.5 ppm (value calculated)		
OEL chemical category	Skin notation		
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA [ppm]	20 ppm (Turpentine and selected Monoterpenes)		
ACGIH chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer		
d-Limonene (5989-27-5)			
Finland - Occupational Exposure Limits			
HTP (OEL TWA) [1]	140 mg/m³		
HTP (OEL TWA) [2]	25 ppm		
HTP (OEL STEL)	280 mg/m³		
HTP (OEL STEL) [ppm]	50 ppm		
Germany - Occupational Exposure Limits (TRGS 90	00)		
AGW (OEL TWA) [1]	28 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)		
AGW (OEL TWA) [2]	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, Skin sensitization		
Slovenia - Occupational Exposure Limits			
OEL TWA	28 mg/m³		
OEL TWA [ppm]	5 ppm		
OEL STEL	112 mg/m³		
OEL STEL [ppm]	20 ppm		
OEL chemical category	Potential for cutaneous absorption		
Spain - Occupational Exposure Limits			
VLA-ED (OEL TWA) [1]	168 mg/m³		
VLA-ED (OEL TWA) [2]	30 ppm		
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption		
Norway - Occupational Exposure Limits			
Grenseverdi (OEL TWA) [1]	140 mg/m³		
Grenseverdi (OEL TWA) [2]	25 ppm		
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)		
Korttidsverdi (OEL STEL) [ppm]	37.5 ppm (value calculated)		
OEL chemical category	Allergenic substance		
Switzerland - Occupational Exposure Limits	Switzerland - Occupational Exposure Limits		
MAK (OEL TWA) [1]	40 mg/m³		
MAK (OEL TWA) [2]	7 ppm		
KZGW (OEL STEL)	80 mg/m³		
KZGW (OEL STEL) [ppm]	14 ppm		

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d-Limonene (5989-27-5)		
OEL chemical category	Sensitizer	
.betaPinene (127-91-3)		
Belgium - Occupational Exposure Limits		
OEL TWA [ppm]	20 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA	150 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)	
OEL TWA [ppm]	25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)	
OEL STEL	300 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)	
OEL STEL [ppm]	50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	150 mg/m³	
IPRV (OEL TWA) [ppm]	25 ppm	
TPRV (OEL STEL)	300 mg/m³	
TPRV (OEL STEL) [ppm]	50 ppm	
Portugal - Occupational Exposure Limits		
OEL TWA [ppm]	20 ppm (Turpentine and selected Monoterpenes)	
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA) [1]	113 mg/m³	
VLA-ED (OEL TWA) [2]	20 ppm	
OEL chemical category	Sensitizer	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	150 mg/m³	
NGV (OEL TWA) [ppm]	25 ppm	
KTV (OEL STEL)	300 mg/m³	
KTV (OEL STEL) [ppm]	50 ppm	
OEL chemical category	Sensitizer	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	140 mg/m³	
Grenseverdi (OEL TWA) [2]	25 ppm	
Korttidsverdi (OEL STEL)	175 mg/m³ (value calculated)	
Korttidsverdi (OEL STEL) [ppm]	37.5 ppm (value calculated)	
USA - ACGIH - Occupational Exposure Limits	USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	20 ppm (Turpentine and selected Monoterpenes)	
ACGIH chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer	

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n Cumono (99 97 6)		
p-Cymene (99-87-6)		
Denmark - Occupational Exposure Limits	105 / 2/14	
OEL TWA [1]	135 mg/m³ (Methylisopropylbenzenes)	
OEL TWA [2]	25 ppm (Methylisopropylbenzenes)	
OEL STEL	270 mg/m³ (Methylisopropylbenzenes)	
OEL STEL [ppm]	50 ppm (Methylisopropylbenzenes)	
Estonia - Occupational Exposure Limits		
OEL TWA	140 mg/m³	
OEL TWA [ppm]	25 ppm	
OEL STEL	190 mg/m³	
OEL STEL [ppm]	35 ppm	
Latvia - Occupational Exposure Limits		
OEL TWA	10 mg/m³ (Cymene (2, 3, 4-isomers mixture))	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	140 mg/m³	
IPRV (OEL TWA) [ppm]	25 ppm	
TPRV (OEL STEL)	190 mg/m³	
TPRV (OEL STEL) [ppm]	35 ppm	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	140 mg/m³	
NGV (OEL TWA) [ppm]	25 ppm	
KTV (OEL STEL)	190 mg/m³	
KTV (OEL STEL) [ppm]	35 ppm	
Ethyl benzoate (93-89-0)		
Romania - Occupational Exposure Limits		
OEL TWA	200 mg/m³	
OEL TWA [ppm]	33 ppm	
OEL STEL	300 mg/m³	
OEL STEL [ppm]	49 ppm	
Ethyl alcohol (64-17-5)		
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	1900 mg/m³	
MAK (OEL TWA) [ppm]	1000 ppm	
MAK (OEL STEL)	3800 mg/m³	
MAK (OEL STEL) [ppm]	2000 ppm	
Belgium - Occupational Exposure Limits		
OEL TWA	1907 mg/m³	
OEL TWA [ppm]	1000 ppm	

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Ethyl alcohol (64-17-5)		
Bulgaria - Occupational Exposure Limits		
OEL TWA	1000 mg/m³	
Croatia - Occupational Exposure Limits		
GVI (OEL TWA) [1]	1900 mg/m³	
GVI (OEL TWA) [2]	1000 ppm	
Czech Republic - Occupational Exposure Limits		
PEL (OEL TWA)	1000 mg/m³	
Denmark - Occupational Exposure Limits		
OEL TWA [1]	1900 mg/m³	
OEL TWA [2]	1000 ppm	
OEL STEL	3800 mg/m³	
OEL STEL [ppm]	2000 ppm	
Estonia - Occupational Exposure Limits		
OEL TWA	1000 mg/m³	
OEL TWA [ppm]	500 ppm	
OEL STEL	1900 mg/m³	
OEL STEL [ppm]	1000 ppm	
Finland - Occupational Exposure Limits		
HTP (OEL TWA) [1]	1900 mg/m³	
HTP (OEL TWA) [2]	1000 ppm	
HTP (OEL STEL)	2500 mg/m³	
HTP (OEL STEL) [ppm]	1300 ppm	
France - Occupational Exposure Limits		
VME (OEL TWA)	1900 mg/m³	
VME (OEL TWA) [ppm]	1000 ppm	
VLE (OEL C/STEL)	9500 mg/m³	
VLE (OEL C/STEL) [ppm]	5000 ppm	
Germany - Occupational Exposure Limits (TRGS 90	00)	
AGW (OEL TWA) [1]	380 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
AGW (OEL TWA) [2]	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)	
Greece - Occupational Exposure Limits		
OEL TWA	1900 mg/m³	
OEL TWA [ppm]	1000 ppm	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	1900 mg/m³	
CK (OEL STEL)	3800 mg/m³	
Ireland - Occupational Exposure Limits		
OEL STEL [ppm]	1000 ppm	

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Ethyl alcohol (64-17-5)		
Latvia - Occupational Exposure Limits		
OEL TWA	1000 mg/m³	
Lithuania - Occupational Exposure Limits		
IPRV (OEL TWA)	1000 mg/m³	
IPRV (OEL TWA) [ppm]	500 ppm	
TPRV (OEL STEL)	1900 mg/m³	
TPRV (OEL STEL) [ppm]	1000 ppm	
Netherlands - Occupational Exposure Limits		
TGG-8u (OEL TWA)	260 mg/m³	
TGG-8u (OEL TWA) [ppm]	137 ppm	
TGG-15min (OEL STEL)	1900 mg/m³	
TGG-15min (OEL STEL) [ppm]	1000 ppm	
MAC chemical category	Skin notation	
Poland - Occupational Exposure Limits		
NDS (OEL TWA)	1900 mg/m³	
Portugal - Occupational Exposure Limits		
OEL STEL [ppm]	1000 ppm	
OEL chemical category	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	
Romania - Occupational Exposure Limits		
OEL TWA	1900 mg/m³	
OEL TWA [ppm]	1000 ppm	
OEL STEL	9500 mg/m³	
OEL STEL [ppm]	5000 ppm	
Slovakia - Occupational Exposure Limits		
NPHV (OEL TWA) [1]	960 mg/m³	
NPHV (OEL TWA) [2]	500 ppm	
NPHV (OEL C)	1920 mg/m³	
Slovenia - Occupational Exposure Limits		
OEL TWA	960 mg/m³	
OEL TWA [ppm]	500 ppm	
OEL STEL	1920 mg/m³	
OEL STEL [ppm]	1000 ppm	
Spain - Occupational Exposure Limits		
VLA-EC (OEL STEL)	1910 mg/m³	
VLA-EC (OEL STEL) [ppm]	1000 ppm	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	1000 mg/m³	
NGV (OEL TWA) [ppm]	500 ppm	
KTV (OEL STEL)	1900 mg/m³	

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Ethyl alcohol (64-17-5)	
KTV (OEL STEL) [ppm]	1000 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	1920 mg/m³
WEL TWA (OEL TWA) [2]	1000 ppm
WEL STEL (OEL STEL)	5760 mg/m³ (calculated)
WEL STEL (OEL STEL) [ppm]	3000 ppm (calculated)
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	950 mg/m³
Grenseverdi (OEL TWA) [2]	500 ppm
Korttidsverdi (OEL STEL)	1187.5 mg/m³ (value calculated)
Korttidsverdi (OEL STEL) [ppm]	625 ppm (value calculated)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	960 mg/m³
MAK (OEL TWA) [2]	500 ppm
KZGW (OEL STEL)	1920 mg/m³
KZGW (OEL STEL) [ppm]	1000 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL STEL [ppm]	1000 ppm
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Acetaldehyde (75-07-0)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	90 mg/m³
MAK (OEL TWA) [ppm]	50 ppm
MAK (OEL STEL)	90 mg/m³
MAK (OEL STEL) [ppm]	50 ppm
OEL C	90 mg/m³
OEL C [ppm]	50 ppm
OEL chemical category	Group B Carcinogen
Belgium - Occupational Exposure Limits	
OEL TWA [ppm]	25 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	30 mg/m³
OEL STEL	200 mg/m³
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	37 mg/m³
GVI (OEL TWA) [2]	20 ppm
KGVI (OEL STEL)	92 mg/m³

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Acetaldehyde (75-07-0)				
Czech Republic - Occupational Exposure Limits				
PEL (OEL TWA)	50 mg/m³			
Denmark - Occupational Exposure Limits				
OEL C	45 mg/m³			
OEL C [ppm]	25 ppm			
Estonia - Occupational Exposure Limits				
OEL TWA	45 mg/m³			
OEL TWA [ppm]	25 ppm			
OEL STEL	90 mg/m³			
OEL STEL [ppm]	50 ppm			
OEL chemical category	Carcinogenic substance			
Finland - Occupational Exposure Limits				
HTP (OEL STEL)	46 mg/m³			
HTP (OEL STEL) [ppm]	25 ppm			
France - Occupational Exposure Limits				
VME (OEL TWA)	180 mg/m³			
VME (OEL TWA) [ppm]	100 ppm			
OEL chemical category	Carcinogen category 1B, Mutagen category 2			
Germany - Occupational Exposure Limits (TRGS 900)				
AGW (OEL TWA) [1]	91 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)			
AGW (OEL TWA) [2]	50 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)			
Greece - Occupational Exposure Limits				
OEL TWA	180 mg/m³			
OEL TWA [ppm]	100 ppm			
OEL STEL	270 mg/m³			
OEL STEL [ppm]	150 ppm			
Hungary - Occupational Exposure Limits				
AK (OEL TWA)	45 mg/m³			
CK (OEL STEL)	45 mg/m³			
Ireland - Occupational Exposure Limits				
OEL STEL	45 mg/m³			
OEL STEL [ppm]	25 ppm			
Latvia - Occupational Exposure Limits				
OEL TWA	5 mg/m³			
Lithuania - Occupational Exposure Limits				
IPRV (OEL TWA)	45 mg/m³			
IPRV (OEL TWA) [ppm]	25 ppm			
TPRV (OEL STEL)	90 mg/m³			

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Acetaldehyde (75-07-0)				
TPRV (OEL STEL) [ppm]	50 ppm			
OEL chemical category	Carcinogen			
Netherlands - Occupational Exposure Limits				
TGG-8u (OEL TWA)	37 mg/m³			
TGG-8u (OEL TWA) [ppm]	20 ppm			
TGG-15min (OEL STEL)	92 mg/m³			
TGG-15min (OEL STEL) [ppm]	50 ppm			
Poland - Occupational Exposure Limits				
NDSP (OEL C)	45 mg/m³			
Portugal - Occupational Exposure Limits				
OEL C [ppm]	25 ppm			
OEL chemical category	A2 - Suspected Human Carcinogen			
Romania - Occupational Exposure Limits				
OEL TWA	90 mg/m³			
OEL TWA [ppm]	50 ppm			
OEL STEL	180 mg/m³			
OEL STEL [ppm]	100 ppm			
Slovakia - Occupational Exposure Limits				
NPHV (OEL TWA) [1]	91 mg/m³			
NPHV (OEL TWA) [2]	50 ppm			
Slovenia - Occupational Exposure Limits				
OEL TWA	91 mg/m³			
OEL TWA [ppm]	50 ppm			
OEL STEL	91 mg/m³			
OEL STEL [ppm]	50 ppm			
OEL chemical category	Category 2			
Spain - Occupational Exposure Limits				
VLA-EC (OEL STEL)	46 mg/m³			
VLA-EC (OEL STEL) [ppm]	25 ppm			
OEL chemical category	C1B			
Sweden - Occupational Exposure Limits				
NGV (OEL TWA)	45 mg/m³			
NGV (OEL TWA) [ppm]	25 ppm			
KTV (OEL STEL)	90 mg/m³			
KTV (OEL STEL) [ppm]	50 ppm			
OEL chemical category	Carcinogen			
United Kingdom - Occupational Exposure Limits				
WEL TWA (OEL TWA) [1]	37 mg/m³			
WEL TWA (OEL TWA) [2]	20 ppm			

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Acetaldehyde (75-07-0)		
WEL STEL (OEL STEL)	92 mg/m³	
WEL STEL (OEL STEL) [ppm]	50 ppm	
WEL chemical category	Capable of causing cancer and/or heritable genetic damage	
Norway - Occupational Exposure Limits		
Grenseverdi (OEL TWA) [1]	45 mg/m³	
Grenseverdi (OEL TWA) [2]	25 ppm	
Korttidsverdi (OEL STEL)	67.5 mg/m³ (value calculated)	
Korttidsverdi (OEL STEL) [ppm]	37.5 ppm (value calculated)	
OEL chemical category	Carcinogen	
Switzerland - Occupational Exposure Limits		
MAK (OEL TWA) [1]	90 mg/m³	
MAK (OEL TWA) [2]	50 ppm	
KZGW (OEL STEL)	90 mg/m³	
KZGW (OEL STEL) [ppm]	50 ppm	
OEL chemical category	Category C2 carcinogen	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL C [ppm]	25 ppm	
ACGIH chemical category	Suspected Human Carcinogen	

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

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

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

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8.2.2.2. Skin protection

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

Other information:

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

Colour : light yellow. amber. Odour : characteristic. : Not available Odour threshold Melting point : Not available Freezing point : Not available : Not available Boiling point Flammability : Not applicable **Explosive limits** : Not available Lower explosion limit : Not available Upper explosion limit : Not available

Flash point : > 93 °C (closed cup) ASTM D7094

: Not applicable

Auto-ignition temperature : Not available Decomposition temperature : Not available : Not available Viscosity, kinematic : Not available Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure Not available Vapour pressure at 50°C : Not available : Not available Density Relative density Not available Relative vapour density at 20°C : Not available

9.2. Other information

Particle characteristics

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

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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) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Acute toxicity (inhalation)	Not classified
MILK & HONEY #EU24302F	
ATE CLP (oral)	763.586 mg/kg bodyweight
Benzyl benzoate (120-51-4)	
LD50 oral rat	500 mg/kg (Source: NLM_CIP)
LD50 oral	1160 mg/kg bodyweight
LD50 dermal rabbit	4000 mg/kg (Source: NLM_CIP)
Verdox (88-41-5)	
LD50 oral rat	4600 mg/kg (Source: NLM_CIP)
LD50 oral	4600 mg/kg bodyweight
Benzyl salicylate (118-58-1)	
LD50 oral rat	2227 mg/kg (Source: NLM_CIP)
LD50 oral	2200 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
Majantol (103694-68-4)	
LD50 oral	3440 mg/kg bodyweight
LD50 dermal rabbit	> 5 ml/kg (Source: ECHA_API)
Arova N (54982-83-1)	
LD50 oral	4500 mg/kg bodyweight
Carbitol (111-90-0)	
LD50 oral rat	10502 mg/kg (Source: OECD_SIDS)
LD50 dermal rabbit	9143 mg/kg (Source: OECD_SIDS)
LC50 Inhalation - Rat	> 5240 mg/m³ (Exposure time: 4 h Source: NLM_CIP)
Hydroxy (107-75-5)	
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)

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Hydroxy (107-75-5)		
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)	
Aldehyde C-14 (104-67-6)		
LD50 oral rat	18500 mg/kg (Source: NLM_CIP)	
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)	
Ethyl vanillin (121-32-4)		
LD50 oral rat	1590 mg/kg (Source: NLM_CIP)	
LD50 oral	3000 mg/kg bodyweight	
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)	
Anisic aldehyde (123-11-5)		
LD50 oral rat	> 2000 mg/kg (Source: OECD_SIDS)	
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: OECD_SIDS)	
Benzaldehyde (100-52-7)		
LD50 oral rat	1292 mg/kg (Source: JAPAN_GHS)	
LD50 dermal rabbit	> 1250 mg/kg (Source: JAPAN_GHS)	
Isoeugenol (97-54-1)		
LD50 oral rat	1560 mg/kg (Source: NLM_CIP)	
LD50 oral	1500 mg/kg bodyweight	
LD50 dermal	1912 mg/kg bodyweight	
Damascenone Total (23696-85-7)		
LD50 dermal	2900 mg/kg bodyweight	
.alphaPinene (80-56-8)		
LD50 oral rat	3700 mg/kg (Source: NLM_CIP)	
LD50 oral	500 mg/kg bodyweight	
LD50 dermal rat	> 5000 mg/kg (Source: CHEMVIEW)	
d-Limonene (5989-27-5)		
LD50 oral rat	4400 mg/kg (Source: CHEMVIEW)	
LD50 dermal rabbit	> 5 g/kg (Source: CHEMVIEW)	
.betaPinene (127-91-3)		
LD50 oral rat	> 5000 mg/kg (Source: EPA_HPV)	
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)	
p-Cymene (99-87-6)		
LD50 oral rat	4750 mg/kg (Source: NLM_CIP)	
LD50 oral	4750 mg/kg bodyweight	
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)	
LC50 Inhalation - Rat	> 9.7 mg/l (Exposure time: 5 h Source: EU_CLH)	

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p-Cymene (99-87-6)	
LC50 Inhalation - Rat (Vapours)	9.7 mg/l/4h
Ethyl benzoate (93-89-0)	
LD50 oral rat	2100 mg/kg (Source: NLM_CIP)
LD50 oral	2500 mg/kg bodyweight
Ethyl alcohol (64-17-5)	
LD50 oral rat	7060 mg/kg (Source: NLM_CIP)
LC50 Inhalation - Rat	133.8 mg/l/4h
Acetaldehyde (75-07-0)	
LD50 oral rat	660 mg/kg (Source: JAPAN_GHS)
LD50 oral	700 mg/kg bodyweight
LD50 dermal rabbit	3540 mg/kg (Source: NLM_HSDB)
LD50 dermal	3540 mg/kg bodyweight
LC50 Inhalation - Rat [ppm]	13000 ppm/4h
Serious eye damage/irritation : Respiratory or skin sensitisation : Germ cell mutagenicity :	Not classified Causes serious eye irritation. May cause an allergic skin reaction. Not classified May cause cancer.
d-Limonene (5989-27-5)	
IARC group	3 - Not classifiable
Acetaldehyde (75-07-0)	
IARC group	1 - Carcinogenic to humans,2B - Possibly carcinogenic to humans
,	Not classified Not classified
Isoeugenol (97-54-1)	
STOT-single exposure	May cause respiratory irritation.
Acetaldehyde (75-07-0)	
STOT-single exposure	May cause respiratory irritation.
·	Not classified
•	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

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SECTION 12: Ecological information

2					

Hazardous to the aquatic environment, short-term :

(acute)

n : Not classified

Hazardous to the aquatic environment, long-term

: Toxic to aquatic life with long lasting effects.

(chronic)

(chronic)	
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
Benzyl salicylate (118-58-1)	
LC50 - Fish [1]	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
Arova N (54982-83-1)	
LC50 - Fish [1]	0.88 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: ECHA)
Carbitol (111-90-0)	
LC50 - Fish [1]	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
LC50 - Fish [2]	19100 – 23900 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA)
EC50 - Crustacea [1]	3940 – 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Aldehyde C-14 (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
Ethyl vanillin (121-32-4)	
LC50 - Fish [1]	81.4 – 94.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
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)
.alphaPinene (80-56-8)	
LC50 - Fish [1]	0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
EC50 - Crustacea [1]	41 mg/l (Exposure time: 48 h - Species: Daphnia magna)
d-Limonene (5989-27-5)	
LC50 - Fish [1]	0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)
Ethyl benzoate (93-89-0)	
LC50 - Fish [1]	6.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)

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Ethyl alcohol (64-17-5)		
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)	
EC50 - Crustacea [1]	9268 – 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 - Crustacea [2]	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
Acetaldehyde (75-07-0)		
LC50 - Fish [1]	28 – 34 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)	
LC50 - Fish [2]	53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)	
EC50 - Crustacea [1]	3.64 – 6.15 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
EC50 - Crustacea [2]	48.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
12.2. Persistence and degradability		
MILK & HONEY #EU24302F		
Persistence and degradability	Not established.	
Benzyl benzoate (120-51-4)		
Persistence and degradability	May cause long-term adverse effects in the environment.	
12.3. Bioaccumulative potential		
MILK & HONEY #EU24302F		
Bioaccumulative potential	Not established.	
Benzyl benzoate (120-51-4)		
Partition coefficient n-octanol/water (Log Pow)	3.97 (at 25 °C)	
Bioaccumulative potential	Not established.	
Benzyl salicylate (118-58-1)		
Partition coefficient n-octanol/water (Log Pow)	4	
Majantol (103694-68-4)		
Partition coefficient n-octanol/water (Log Pow)	3.07 (at 20 °C)	
Arova N (54982-83-1)		
BCF - Fish [1]	(156 dimensionless (whole body w.w.)	
Partition coefficient n-octanol/water (Log Pow)	3.65 (at 20 °C (at pH >=7.39-<=7.99)	
Carbitol (111-90-0)		
Partition coefficient n-octanol/water (Log Pow)	-0.8	
Hydroxy (107-75-5)		
Partition coefficient n-octanol/water (Log Pow)	1.68 (at 25 °C)	
Aldehyde C-14 (104-67-6)		
Partition coefficient n-octanol/water (Log Pow)	3.6 (at 25 °C)	
Ethyl vanillin (121-32-4)		
Partition coefficient n-octanol/water (Log Pow)	1.61 (at 25 °C)	

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Anisic aldehyde (123-11-5)			
Partition coefficient n-octanol/water (Log Pow)	1.56 (at 25 °C (at pH >7.9-<8.25)		
Benzaldehyde (100-52-7)			
BCF - Fish [1]	(no significant bioaccumulation)		
Partition coefficient n-octanol/water (Log Pow)	1.4 (at 25 °C)		
.alphaPinene (80-56-8)			
Partition coefficient n-octanol/water (Log Pow)	4.1		
d-Limonene (5989-27-5)			
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2)		
p-Cymene (99-87-6)			
Partition coefficient n-octanol/water (Log Pow)	4.8 (at 20 °C (at pH 7)		
Partition coefficient n-octanol/water (Log Kow)	0		
Ethyl benzoate (93-89-0)			
Partition coefficient n-octanol/water (Log Pow)	2.59 (at 22.8 °C (at pH 6-7)		
Ethyl alcohol (64-17-5)			
Partition coefficient n-octanol/water (Log Pow)	-0.35 (at 24 °C (at pH 7.4)		
Acetaldehyde (75-07-0)			
Partition coefficient n-octanol/water (Log Pow)	0.45 – 0.63 (at 25 °C (at pH 7)		

12.4. Mobility in soil

No additional information available

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

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

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HP Code

- : HP3 "Flammable:"
 - flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
 - flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
 - flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
 - flammable gaseous waste: gaseous waste which is flammable in air at 20 $^{\circ}\text{C}$ and a standard pressure of 101.3 kPa;
 - water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
 - other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
 - HP6 "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
 - HP7 "Carcinogenic:" waste which induces cancer or increases its incidence
 - 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	number	'		
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shippin	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)	DOUS HAZARDOUS substance, liquid, n.o.s. HAZARDOUS E, LIQUID, SUBSTANCE, LIQUID, (Benzyl benzoate) SUBSTANCE, LIQUID,		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)	
Transport document descr	ription			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Benzyl benzoate), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate), 9, III
14.3. Transport hazard	class(es)			
9	9	9	9	9
	**************************************		9	
14.4. Packing group				
III	III	III	III	III
14.5. Environmental haz	zards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information	on available	1		

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14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates :

90 3082

Tunnel restriction code (ADR) : EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969

: 5 L Limited quantities (IMDG) Excepted quantities (IMDG) : E1 : LP01, P001 Packing instructions (IMDG) Special packing provisions (IMDG) PP1 IBC packing instructions (IMDG) IBC03 Tank instructions (IMDG) T4 Tank special provisions (IMDG) TP1, TP29 EmS-No. (Fire) F-A : S-F EmS-No. (Spillage) Stowage category (IMDG) Α

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197, A215

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6

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Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

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 (REACH Annex XVII)			
Reference code	Applicable on	Entry title or description	
28.	Acetaldehyde	Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively.	
3(a)	.alphaPinene ; d- Limonene ; .betaPinene ; p-Cymene ; Ethyl alcohol ; Acetaldehyde	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)	MILK & HONEY #EU24302F; Benzyl benzoate; Benzyl salicylate; Majantol; Mayol; Hydroxy; Benzaldehyde; Isoeugenol; Damascenone Total; d- Limonene; p-Cymene; Acetaldehyde	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)	MILK & HONEY #EU24302F; Benzyl benzoate; Verdox; Benzyl salicylate; Majantol; Arova N; Aldehyde C-14; Anisic aldehyde; Damascenone Total; d-Limonene; p- Cymene	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	

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EU restriction list (REA	striction list (REACH Annex XVII)				
Reference code	Applicable on	Entry title or description			
40.	,	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)

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 no 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	cupational 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) Storage class (LGK, TRGS 510)

Joint storage table

Joint storage not permitted for Joint storage with restrictions permitted for Joint storage permitted for : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

: LGK 6.1D - Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects.

:	LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
	LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
	LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
	LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
	LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

: LGK 1, LGK 2A, LGK 4.1A, LGK 5.1A, LGK 5.1C, LGK 5.2, LGK 6.2, LGK 7.

: LGK 3, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1B.

: LGK 2B, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13.

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Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must

be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the

shipping route (according to § 10).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

ABM category : Z(2) - biodegradable substances with hazardous properties for humans and the

environment (carcinogenicity/ mutagenicity/reprotoxicity/bioacumulative potential or toxicity)

SZW-lijst van kankerverwekkende stoffen : Ethyl alcohol, Acetaldehyde are listed

SZW-lijst van mutagene stoffen

SZW-lijst van reprotoxische stoffen - Borstvoeding

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen - Ontwikkeling

None of the components are listedEthyl alcohol is listed

: Ethyl alcohol is listed

: Ethyl alcohol is listed

Denmark

Classification remarks : 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

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

The requirements from the Danish Working Environment Authorities regarding work with

carcinogens must be followed during use and disposal

Switzerland

Storage class (LK) : LK 6.1 - Toxic materials

Chemicals Ordinance (SR 813.11) : Group 1

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. 3 (Inhalation)	Acute toxicity (inhal.), Category 3		
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4		
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		
Asp. Tox. 1	Aspiration hazard, Category 1		
Carc. 1B	Carcinogenicity, Category 1B		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 1	Flammable liquids, Category 1		
Flam. Liq. 2	Flammable liquids, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
H224	Extremely flammable liquid and vapour.		

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Full text of H- and EUH-statements:			
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H331	Toxic if inhaled.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H341	Suspected of causing genetic defects.		
H350	May cause cancer.		
H361	Suspected of damaging fertility or the unborn child.		
H400	Very toxic to aquatic life.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
Muta. 2	Germ cell mutagenicity, Category 2		
Repr. 2	Reproductive toxicity, Category 2		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1	Skin sensitisation, Category 1		
Skin Sens. 1A	Skin sensitisation, category 1A		
Skin Sens. 1B	Skin sensitisation, category 1B		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation		

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.