

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 02/09/2021 Revision date: 24/07/2025 Supersedes version of: 16/06/2025 Version: 3.0

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

#### 1.1. Product identifier

Product form : Mixture

 Trade name
 : PUMPKIN PIE #EU13513F

 UFI
 : T5E6-K1SR-H00V-H1FQ

Product code : EU13513F

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

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

#### Relevant identified uses

Main use category : Industrial use,Professional use Industrial/Professional use spec : For professional use only

Industrial

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

#### 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

Skin corrosion/irritation, Category 2

H315

Serious eye damage/eye irritation, Category 2

H319

Skin sensitisation, Category 1

Hazardous to the aquatic environment – Acute Hazard,

H400

Category 1

Hazardous to the aquatic environment – Chronic Hazard, H411

Category 2

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

#### Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life. Toxic 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)





GHS07

GHS09

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Precautionary statements (CLP)

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

Signal word (CLP) : Warning

Contains : Benzyl benzoate; Cinnamic aldehyde; Eugenol; COUMARIN; Phenylethyl alcohol; Ethyl

maltol; Amyl cinnamic aldehyde; Veratryl aldehyde (Veratraldehyde); Acetyl Propionyl; 1,2-

Cyclopentanedione, 3-methyl-; Benzyl alcohol; beta-Caryophyllene

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

H315 - Causes skin irritation.

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

H410 - Very toxic to aquatic life with long lasting effects.

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.

P273 - Avoid release to the environment.

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

protection.

Extra phrases : For professional users only.

#### 2.3. Other hazards

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**

## 3.2. 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	27.5 – 55	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Cinnamic aldehyde	CAS-No.: 104-55-2 EC-No.: 203-213-9 EC Index-No.: 606-155-00-6 REACH-no: 01-2119935242-	8.51 – 17.0375	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3, H412
Eugenol	CAS-No.: 97-53-0 EC-No.: 202-589-1 REACH-no: 01-2119971802- 33	3.15 – 6.4	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Ethyl vanillin	CAS-No.: 121-32-4 EC-No.: 204-464-7 REACH-no: 01-211958961-24	2.3795999 – 4.959986625	Eye Irrit. 2, H319
COUMARIN	CAS-No.: 91-64-5 EC-No.: 202-086-7 REACH-no: 01-2119943756- 26	1.90002 – 3.80003	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phenylethyl alcohol	CAS-No.: 60-12-8 EC-No.: 200-456-2 REACH-no: 01-2119963921- 31	1.4 – 2.75	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Terpineol	CAS-No.: 8000-41-7 EC-No.: 232-268-1	0.9 – 1.75	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Anisic aldehyde	CAS-No.: 123-11-5 EC-No.: 204-602-6 REACH-no: 01-2119977101- 43	0.884 – 1.675	Aquatic Chronic 3, H412
Ethyl maltol	CAS-No.: 4940-11-8 EC-No.: 225-582-5	0.5 – 1	Acute Tox. 4 (Oral), H302
Amyl cinnamic aldehyde	CAS-No.: 122-40-7 EC-No.: 204-541-5	0.5 – 1	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Acetyl Propionyl substance with national workplace exposure limit(s) (DE, SI, CH)	CAS-No.: 600-14-6 EC-No.: 209-984-8	0.3 – 0.5	Flam. Liq. 2, H225 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373
1,2-Cyclopentanedione, 3-methyl-	CAS-No.: 765-70-8 EC-No.: 212-154-8	0.3 – 0.5	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317
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-	0.3 – 0.5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361 STOT SE 3, H335
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-	0.2 – 0.4	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
beta-Caryophyllene	CAS-No.: 87-44-5 EC-No.: 201-746-1 REACH-no: 01-2120745237- 53	0.11 – 0.225	Asp. Tox. 1, H304 Skin Sens. 1B, H317
Veratryl aldehyde (Veratraldehyde)	CAS-No.: 120-14-9 EC-No.: 204-373-2	0.075 – 0.15625	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317
.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 – 0.053	Flam. Liq. 3, H226
.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 – 0.053	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(R)-p-mentha-1,8-diene; 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 - 0.023	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 – 0.01	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
Dipropylene glycol monomethyl ether substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, 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.: 34590-94-8 EC-No.: 252-104-2	0.000762 – 0.0015875	Not classified
Toluene substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, 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.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3	≤ 0.00001875	Not classified

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Cinnamic aldehyde		(0.001 < C < 0.01) EUH208 (0.01 ≤ C < 0.1) Skin Sens. 1; H317 (0.1 ≤ 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	:	Neve	er g	jive	an	yth	ing	by	/ m	outh to	an	und	con	scious	perso	n. If	you f	eel	unv	well,	seel	c med	ical
													_								-		

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present

center or a doctor if you feel unwell.

advice (show the label where possible). Call a poison center or a doctor if you feel unwell. 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. First-aid measures after eye contact and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. First-aid measures after ingestion : Do NOT induce vomiting. Obtain emergency medical attention. Rinse mouth. Call a poison

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

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

Symptoms/effects after eye contact : Eye irritation.

#### 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.

#### 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

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

#### 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.

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".

#### 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

For containment : Collect spillage.

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.

#### **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. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be

allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

wash hands after handling the produced

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#### 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.

Storage temperature : 25 °

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

National occupational exposure and biological limit values

Dipropylene glycol monomethyl ether (34590-94-8)			
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA	308 mg/m³		
	50 ppm		
Remark	Possibility of significant uptake through the skin		
Ireland - Occupational Exposure Limits			
OEL TWA	308 mg/m³ ((2-Methoxymethylethoxy)propanol)		
	50 ppm ((2-Methoxymethylethoxy)propanol)		
OEL STEL	924 mg/m³ (calculated (2-(2-Methoxypropoxy)-1-propanol)		
	150 ppm (calculated (2-(2-Methoxypropoxy)-1-propanol)		
OEL chemical category	Potential for cutaneous absorption		
Toluene (108-88-3)			
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA	192 mg/m³		
	50 ppm		
IOEL STEL	384 mg/m³		
	100 ppm		
Remark	Possibility of significant uptake through the skin		
Ireland - Occupational Exposure Limits			
OEL TWA	192 mg/m³		
	50 ppm		
OEL STEL	384 mg/m³		
	100 ppm		
OEL chemical category	Potential for cutaneous absorption		

## 8.2. Exposure controls

#### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

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#### Personal protection equipment

#### Personal protective equipment symbol(s):





#### Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses. Safety glasses

#### **Skin protection**

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Wear protective gloves.

#### **Respiratory protection**

#### Respiratory protection:

Wear appropriate mask

#### **Environmental exposure controls**

#### **Environmental exposure controls:**

Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour light yellow. amber. Conforms to standard.

Not available

Odour characteristic. characteristic.

Odour threshold Melting point Not applicable Freezing point Not available : Not available Boiling point Flammability : Not applicable Lower explosion limit : Not available : Not available Upper explosion limit : > 95 °C Flash point Auto-ignition temperature : Not available Decomposition temperature : Not available рΗ : Not available Viscosity, kinematic : Not available Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available

Vapour pressure : 0.001378235 mm Hg (calculated value)

Vapour pressure at 50°C : Not available Density : Not available Relative density : ≈ 1.109 Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

#### 9.2. Other information

#### Other safety characteristics

VOC content : 4.70118875 % (calculated value)(CARB VOC) (%w/w)

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## **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

No additional information available

## 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

PUMPKIN PIE #EU13513F	
ATE CLP (oral)	809.96 mg/kg bodyweight
benzyl benzoate (120-51-4)	
LD50 oral rat	> 2000 mg/kg (Source: ECHA_API)
LD50 oral	1160 mg/kg bodyweight
LD50 dermal rabbit	4000 mg/kg (Source: NLM_CIP)
Cinnamic aldehyde (104-55-2)	
LD50 oral rat	2220 mg/kg (Source: NLM_CIP)
LD50 oral	2220 mg/kg
LD50 dermal rabbit	1260 mg/kg (Source: EPA_HPV)
LD50 dermal	1260 mg/kg
Eugenol (97-53-0)	
LD50 oral rat	1930 mg/kg (Source: NZ_CCID)
LD50 oral	2500 mg/kg bodyweight
LC50 Inhalation - Rat	> 2.58 mg/l/4h
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)

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COUMARIN (91-64-5)	
LD50 oral rat	> 5000 mg/kg (Source: JAPAN_GHS)
LD50 dermal rat	293 mg/kg (Source: ECHA_API)
Phenylethyl alcohol (60-12-8)	
LD50 oral rat	1609 mg/kg (Source: EPA_HPV)
LD50 oral	1610 mg/kg
LD50 dermal rabbit	2535 mg/kg (Source: EPA_HPV)
LC50 Inhalation - Rat	> 4.63 mg/l/4h
Terpineol (8000-41-7)	
LD50 oral rat	2900 mg/kg (Source: IUCLID)
LD50 oral	4300 mg/kg bodyweight
LD50 dermal rabbit	> 3000 mg/kg (Source: IUCLID)
Anisic aldehyde (123-11-5)	
LD50 oral rat	3210 mg/kg (Source: ECHA)
LD50 oral	3210 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (Source: EPA_HPV)
LC50 Inhalation - Rat	> 0.32 mg/l (Exposure time: 7 h Source: ECHA)
Ethyl maltol (4940-11-8)	
LD50 oral rat	1150 mg/kg (Source: NLM_CIP)
LD50 oral	1200 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)
Amyl cinnamic aldehyde (122-40-7)	
LD50 oral rat	3730 mg/kg (Source: CHEMVIEW)
LD50 dermal rabbit	> 2000 mg/kg (Source: CHEMVIEW)
Veratryl aldehyde (Veratraldehyde) (120-14-9)	
LD50 oral rat	2 g/kg (Source: NLM_CIP)
LD50 oral	2000 mg/kg bodyweight
Dipropylene glycol monomethyl ether (34590-	94-8)
LD50 oral rat	5.35 g/kg (Source: NLM_HSDB)
LD50 dermal rabbit	9500 mg/kg (Source: NLM_CIP)
Toluene (108-88-3)	
LD50 oral rat	2600 mg/kg (Source: JAPAN_GHS)
LD50 dermal rabbit	12000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat	12.5 mg/l/4h
Acetyl Propionyl (600-14-6)	
LD50 oral rat	3 g/kg (Source: NLM_CIP)
LD50 oral	3000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg (Source: NIOSH)

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Carcinogenicity : Not classified  Eugenol (97-53-0)  IARC group 3 - Not classifiable  COUMARIN (91-64-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Reproductive toxicity : Not classified	1,2-Cyclopentanedione, 3-methyl- (765-70-8)	
1292 mg/kg (Source: JAPAN_GHS)	LD50 oral	1067 mg/kg bodyweight
LD50 dermal rabbit	Benzaldehyde (100-52-7)	
LC50 Inhalation - Rat	LD50 oral rat	1292 mg/kg (Source: JAPAN_GHS)
Denzyl alcohol (100-51-6)   LD50 oral rat	LD50 dermal rabbit	> 1250 mg/kg (Source: JAPAN_GHS)
LD50 oral rat	LC50 Inhalation - Rat	< 5 mg/l/4h
1570 mg/kg   157	benzyl alcohol (100-51-6)	
(R)-p-mentha-1,8-dlene; d-limonene (5989-27-5)  LD50 oral rat	LD50 oral rat	1230 mg/kg (Source: NLM_CIP)
LD50 oral rat	LD50 oral	1570 mg/kg
LD50 dermal rabbit   > 5 g/kg (Source: CHEMVIEW)	(R)-p-mentha-1,8-diene; d-limonene (5989-27-	5)
LD50 oral rat	LD50 oral rat	4400 mg/kg (Source: CHEMVIEW)
LD50 oral rat	LD50 dermal rabbit	> 5 g/kg (Source: CHEMVIEW)
LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW)  alpha-Pinene (80-56-8)  LD50 oral rat   3700 mg/kg (Source: NLM_CIP)  LD50 dermal rat   > 5000 mg/kg (Source: CHEMVIEW)  p-Cymene (99-87-6)  LD50 oral   4750 mg/kg (Source: NLM_CIP)  LD50 oral   4750 mg/kg (Source: NLM_CIP)  LD50 dermal rabbit   > 5000 mg/kg (Source: CHEMVIEW)  LC50 Inhalation - Rat   > 9.7 mg/l (Exposure time: 5 h Source: EU_CLH)  LC50 Inhalation - Rat (Vapours)   9.7 mg/l/4h  Skin corrosion/irritation   Causes skin irritation.  Serious eye damage/irritation   Causes serious eye irritation.  Respiratory or skin sensitisation   May cause an allergic skin reaction.  Germ cell mutagenicity   Not classified  Eugenol (97-53-0)  IARC group   3 - Not classifiable  COUMARIN (91-64-5)  IARC group   3 - Not classifiable  Toluene (108-88-3)  IARC group   3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group   3 - Not classifiable  Reproductive toxicity   Not classifiable	.betaPinene (127-91-3)	
alpha-Pinene (80-56-8)  LD50 oral rat   3700 mg/kg (Source: NLM_CIP)  D-Cymene (99-87-6)  LD50 oral rat   4750 mg/kg (Source: NLM_CIP)  LD50 oral rat   4750 mg/kg (Source: NLM_CIP)  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)  LC50 Inhalation - Rat (Vapours)   9.7 mg/l/4h  Skin corrosion/irritation   Causes skin irritation.  Serious eye damage/irritation   May cause an allergic skin reaction.  Germ cell mutagenicity   Not classified  Carcinogenicity   Not classified  Eugenol (97-53-0)  IARC group   3 - Not classifiable  Toluene (108-88-3)  IARC group   3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group   3 - Not classifiable  Reproductive toxicity   Not classifiable	LD50 oral rat	> 5000 mg/kg (Source: EPA_HPV)
LD50 oral rat   3700 mg/kg (Source: NLM_CIP)	LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
D50 dermal rat > 5000 mg/kg (Source: CHEMVIEW)  p-Cymene (99-87-6)  LD50 oral rat	.alphaPinene (80-56-8)	
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)  LC50 Inhalation - Rat (Vapours) 9.7 mg/l/4h  Skin corrosion/irritation : Causes skin irritation.  Serious eye damage/irritation : Causes serious eye irritation.  Serious eye damage/irritation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Carcinogenicity : Not classified  Eugenol (97-53-0)  IARC group 3 - Not classifiable  COUMARIN (91-64-5)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable	LD50 oral rat	3700 mg/kg (Source: NLM_CIP)
LD50 oral rat  LD50 oral  LD50 oral  A750 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)  LC50 Inhalation - Rat (Vapours)  9.7 mg/l/4h  Skin corrosion/irritation  : Causes skin irritation.  Serious eye damage/irritation  : Causes serious eye irritation.  Respiratory or skin sensitisation  Germ cell mutagenicity  : Not classified  Carcinogenicity  : Not classified  Eugenol (97-53-0)  IARC group  3 - Not classifiable  COUMARIN (91-64-5)  IARC group  3 - Not classifiable  Toluene (108-88-3)  IARC group  3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group  3 - Not classifiable  Reproductive toxicity  : Not classified	LD50 dermal rat	> 5000 mg/kg (Source: CHEMVIEW)
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)  LC50 Inhalation - Rat (Vapours) 9.7 mg/l/4h  Skin corrosion/irritation : Causes skin irritation.  Serious eye damage/irritation : Causes serious eye irritation.  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Carcinogenicity : Not classified  Eugenol (97-53-0)  IARC group 3 - Not classifiable  COUMARIN (91-64-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Reproductive toxicity : Not classifiable	p-Cymene (99-87-6)	
LD50 dermal rabbit > 5000 mg/kg (Source: CHEMVIEW)  LC50 Inhalation - Rat > 9.7 mg/l (Exposure time: 5 h Source: EU_CLH)  LC50 Inhalation - Rat (Vapours) 9.7 mg/l/4h  Skin corrosion/irritation : Causes skin irritation.  Serious eye damage/irritation : Causes serious eye irritation.  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Carcinogenicity : Not classified  Eugenol (97-53-0)  IARC group 3 - Not classifiable  COUMARIN (91-64-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Reproductive toxicity : Not classified	LD50 oral rat	4750 mg/kg (Source: NLM_CIP)
LC50 Inhalation - Rat	LD50 oral	4750 mg/kg bodyweight
LC50 Inhalation - Rat (Vapours)  Skin corrosion/irritation  Causes skin irritation.  Serious eye damage/irritation  Respiratory or skin sensitisation  Germ cell mutagenicity  Interpretation  Serious eye irritation.  Respiratory or skin sensitisation  Germ cell mutagenicity  Interpretation  Serious eye irritation.  Respiratory or skin sensitisation  Interpretation  May cause an allergic skin reaction.  Germ cell mutagenicity  Interpretation  I	LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)
Skin corrosion/irritation : Causes skin irritation.  Serious eye damage/irritation : Causes serious eye irritation.  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Carcinogenicity : Not classified  Eugenol (97-53-0)  IARC group 3 - Not classifiable  COUMARIN (91-64-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Reproductive toxicity : Not classifiable	LC50 Inhalation - Rat	> 9.7 mg/l (Exposure time: 5 h Source: EU_CLH)
Serious eye damage/irritation : Causes serious eye irritation.  Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified Carcinogenicity : Not classified  Eugenol (97-53-0)  IARC group 3 - Not classifiable  COUMARIN (91-64-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Reproductive toxicity : Not classifiable	LC50 Inhalation - Rat (Vapours)	9.7 mg/l/4h
Respiratory or skin sensitisation : May cause an allergic skin reaction.  Germ cell mutagenicity : Not classified  Carcinogenicity : Not classified  Eugenol (97-53-0)  IARC group 3 - Not classifiable  COUMARIN (91-64-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Reproductive toxicity : Not classified		
Germ cell mutagenicity : Not classified  Eugenol (97-53-0)  IARC group 3 - Not classifiable  COUMARIN (91-64-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Reproductive toxicity : Not classified		•
Eugenol (97-53-0)  IARC group 3 - Not classifiable  COUMARIN (91-64-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Reproductive toxicity : Not classified		
IARC group 3 - Not classifiable  COUMARIN (91-64-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Reproductive toxicity : Not classified	Carcinogenicity :	Not classified
COUMARIN (91-64-5)  IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Reproductive toxicity : Not classified	Eugenol (97-53-0)	
IARC group 3 - Not classifiable  Toluene (108-88-3)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Reproductive toxicity : Not classified	IARC group	3 - Not classifiable
Toluene (108-88-3)  IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Reproductive toxicity : Not classified	COUMARIN (91-64-5)	
IARC group 3 - Not classifiable  (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Reproductive toxicity : Not classified	IARC group	3 - Not classifiable
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)  IARC group 3 - Not classifiable  Reproductive toxicity : Not classified	Toluene (108-88-3)	
IARC group 3 - Not classifiable Reproductive toxicity : Not classified	IARC group	3 - Not classifiable
Reproductive toxicity : Not classified	(R)-p-mentha-1,8-diene; d-limonene (5989-27-	5)
	IARC group	3 - Not classifiable
	•	Not classified Not classified

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Benzaldehyde (100-52-7)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure :	Not classified
Acetyl Propionyl (600-14-6)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard :	Not classified
benzyl benzoate (120-51-4)	
Viscosity, kinematic	7.456 mm²/s
Toluene (108-88-3)	
Hydrocarbon	Yes
(R)-p-mentha-1,8-diene; d-limonene (5989-27-	5)
Hydrocarbon	Yes
.betaPinene (127-91-3)	
Hydrocarbon	Yes
.alphaPinene (80-56-8)	
Hydrocarbon	Yes
beta-Caryophyllene (87-44-5)	
Hydrocarbon	Yes
p-Cymene (99-87-6)	
Hydrocarbon	Yes

## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

## 12.1. Toxicity

Ecology - general : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Very toxic to aquatic life.

(acuto)

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

(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
Eugenol (97-53-0)	
LC50 - Fish [1]	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
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)
Phenylethyl alcohol (60-12-8)	
EC50 - Crustacea [1]	287.17 mg/l (Exposure time: 48 h - Species: Daphnia magna)

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Phenylethyl alcohol (60-12-8)	
EC50 72h - Algae [1]	490 mg/l (Species: Desmodesmus subspicatus)
Ethyl maltol (4940-11-8)	
LC50 - Fish [1]	> 85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: ECHA)
Dipropylene glycol monomethyl ether (34590-	94-8)
LC50 - Fish [1]	> 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	1919 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Toluene (108-88-3)	
LC50 - Fish [1]	15.22 – 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [1]	5.46 – 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	12.5 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	> 433 mg/l (Species: Pseudokirchneriella subcapitata)
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)
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)
(R)-p-mentha-1,8-diene; 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]	
LC50 - Fish [2]  .alphaPinene (80-56-8)	Source: EPA)
	Source: EPA)
.alphaPinene (80-56-8)	Source: EPA)  35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)
.alphaPinene (80-56-8) LC50 - Fish [1]	Source: EPA)  35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
.alphaPinene (80-56-8) LC50 - Fish [1] EC50 - Crustacea [1]	Source: EPA)  35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
.alphaPinene (80-56-8) LC50 - Fish [1] EC50 - Crustacea [1]  12.2. Persistence and degradability	Source: EPA)  35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
.alphaPinene (80-56-8) LC50 - Fish [1] EC50 - Crustacea [1]  12.2. Persistence and degradability PUMPKIN PIE #EU13513F	Source: EPA)  35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)  41 mg/l (Exposure time: 48 h - Species: Daphnia magna)
.alphaPinene (80-56-8)  LC50 - Fish [1]  EC50 - Crustacea [1]  12.2. Persistence and degradability  PUMPKIN PIE #EU13513F  Persistence and degradability	Source: EPA)  35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)  41 mg/l (Exposure time: 48 h - Species: Daphnia magna)
.alphaPinene (80-56-8)  LC50 - Fish [1]  EC50 - Crustacea [1]  12.2. Persistence and degradability  PUMPKIN PIE #EU13513F  Persistence and degradability  benzyl benzoate (120-51-4)	Source: EPA)  35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)  0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)  41 mg/l (Exposure time: 48 h - Species: Daphnia magna)  Rapidly degradable

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Eugenol (97-53-0)			
Persistence and degradability	Rapidly degradable		
Ethyl vanillin (121-32-4)			
Persistence and degradability	Not established.		
COUMARIN (91-64-5)			
Persistence and degradability	Rapidly degradable		
Phenylethyl alcohol (60-12-8)			
Persistence and degradability	Rapidly degradable		
Terpineol (8000-41-7)			
Persistence and degradability	Rapidly degradable		
Anisic aldehyde (123-11-5)			
Persistence and degradability	Rapidly degradable		
Ethyl maltol (4940-11-8)			
Persistence and degradability	Rapidly degradable		
Amyl cinnamic aldehyde (122-40-7)			
Persistence and degradability	Rapidly degradable		
Veratryl aldehyde (Veratraldehyde) (120-14-9)			
Persistence and degradability	Rapidly degradable		
Dipropylene glycol monomethyl ether (34590-	94-8)		
Persistence and degradability	Rapidly degradable		
Toluene (108-88-3)			
Persistence and degradability	Rapidly degradable		
Acetyl Propionyl (600-14-6)			
Persistence and degradability	Rapidly degradable		
1,2-Cyclopentanedione, 3-methyl- (765-70-8)			
Persistence and degradability	Rapidly degradable		
Benzaldehyde (100-52-7)			
Persistence and degradability	Rapidly degradable		
benzyl alcohol (100-51-6)			
Persistence and degradability	Rapidly degradable		
(R)-p-mentha-1,8-diene; d-limonene (5989-27-	(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)		
Persistence and degradability	Rapidly degradable		
.betaPinene (127-91-3)			
Persistence and degradability	Rapidly degradable		
.alphaPinene (80-56-8)			
Persistence and degradability	Rapidly degradable		

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beta-Caryophyllene (87-44-5)		
Persistence and degradability	Rapidly degradable	
p-Cymene (99-87-6)		
Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential		
benzyl benzoate (120-51-4)		
Partition coefficient n-octanol/water (Log Pow)	3.97 (at 25 °C)	
Bioaccumulative potential	Not established.	
Cinnamic aldehyde (104-55-2)		
Partition coefficient n-octanol/water (Log Pow)	2.1065 (at 25 °C)	
Eugenol (97-53-0)		
Partition coefficient n-octanol/water (Log Pow)	1.83 (at 30 °C (at pH 5.5)	
Ethyl vanillin (121-32-4)		
Partition coefficient n-octanol/water (Log Pow)	1.61 (at 25 °C)	
Bioaccumulative potential	Not established.	
COUMARIN (91-64-5)		
Partition coefficient n-octanol/water (Log Pow)	≥ 1.91 – ≤ 1.51 (at 25 °C (at pH 7)	
Phenylethyl alcohol (60-12-8)		
Partition coefficient n-octanol/water (Log Pow) 1.36 (at 20 °C (at pH 7)		
Anisic aldehyde (123-11-5)		
Partition coefficient n-octanol/water (Log Pow)	1.56 (at 25 °C (at pH >7.9-<8.25)	
Ethyl maltol (4940-11-8)		
Partition coefficient n-octanol/water (Log Pow)	2.9 (at 25 °C)	
Amyl cinnamic aldehyde (122-40-7)		
Partition coefficient n-octanol/water (Log Pow)	2.498 (at 25 °C (at pH 6.2)	
Veratryl aldehyde (Veratraldehyde) (120-14-9)		
Partition coefficient n-octanol/water (Log Pow)	0.8 (at 25 °C)	
Dipropylene glycol monomethyl ether (34590-	94-8)	
Partition coefficient n-octanol/water (Log Pow)	0.35 (at 25 °C (at pH 7)	
Toluene (108-88-3)		
Partition coefficient n-octanol/water (Log Pow)	2.73 (at 20 °C (at pH 7)	
1,2-Cyclopentanedione, 3-methyl- (765-70-8)		
Partition coefficient n-octanol/water (Log Pow)	-0.54 (calculated value)	
Benzaldehyde (100-52-7)		
BCF - Fish [1]	(no significant bioaccumulation)	
Partition coefficient n-octanol/water (Log Pow)	1.4 (at 25 °C)	

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benzyl alcohol (100-51-6)		
Partition coefficient n-octanol/water (Log Pow)	1.05	
(R)-p-mentha-1,8-diene; d-limonene (5989-27-	5)	
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2)	
.betaPinene (127-91-3)		
Partition coefficient n-octanol/water (Log Pow) 4.4 (at 25 °C)		
.alphaPinene (80-56-8)		
Partition coefficient n-octanol/water (Log Pow)	4.1	
beta-Caryophyllene (87-44-5)		
Partition coefficient n-octanol/water (Log Pow) 6.23 (at 25 °C (at pH 7)		
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	

## 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

benzyl benzoate (120-51-4)	
Other information Avoid release to the environment.	
Ethyl vanillin (121-32-4)	
Other information	Avoid release to the environment.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste treatment methods HP Code

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : HP6 "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

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

24/07/2025 (Revision date) IE - en 15/21

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

ADR	IMDG	IATA	ADN	RID	
14.1. UN number or ID 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. SE, LIQUID, (Benzyl benzoate)		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)	
Transport document descr	iption				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate), 9, III, (-)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate), HOVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate),		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 o	class(es)				
9	9	9	9	9	
	**************************************	**************************************		**************************************	
14.4. Packing group					
III	III	III	III	III	
14.5. Environmental hazards					
Dangerous for the environment: Yes marine pollutant: Yes EmS-No. (Fire): F-A EmS-No. (Spillage): S-F		Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	
No supplementary information	n available		I.	<u>I</u>	

#### 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

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Orange plates : 90

3082

Tunnel restriction code (ADR)

#### Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : LP01, P001 Packing instructions (IMDG) Special packing provisions (IMDG) : PP1 : IBC03 IBC packing instructions (IMDG) : T4 Tank instructions (IMDG) Tank special provisions (IMDG) : TP1, TP29 Stowage category (IMDG) : A

#### 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

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

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#### **SECTION 15: Regulatory information**

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

#### **EU-Regulations**

#### **REACH Annex XVII (Restriction List)**

EU restriction list (R	EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description	
3(a)	Acetyl Propionyl; d- Limonene; .alphaPinene ; .betaPinene; 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 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)	PUMPKIN PIE #EU13513F; Benzyl benzoate; Cinnamic aldehyde; Eugenol; Phenylethyl alcohol; Terpineol; Amyl cinnamic aldehyde; Benzaldehyde ; Acetyl Propionyl; Benzyl alcohol; 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 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)	PUMPKIN PIE #EU13513F; Benzyl benzoate; Cinnamic aldehyde; Anisic aldehyde; Amyl cinnamic aldehyde; 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	
40.	Acetyl Propionyl ; d- Limonene ; .alphaPinene ; .betaPinene ; p- Cymene	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 (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 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

#### VOC Directive (2004/42)

VOC content : 4.70118875 % (calculated value)(CARB VOC) (%w/w)

#### **Explosives Precursors Regulation (EU 2019/1148)**

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

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## **Drug Precursors Regulation (EC 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)

Name	CN designation	CAS-No.		Category, Subcategory	Threshold	Annex
Toluene		108-88-3	2902 30 00	Category 3		Annex I

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	

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Abbreviations and acronyms:	
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Full text of H- and EUF	I-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 1	Hazardous to the aquatic environment – Chronic 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
EUH208	Contains {0 message≤name of sensitising substance> fieldvalue=_SENSITIZER_COMPONENTS}. May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
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 RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
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.
H318	Causes serious eye damage.

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Full text of H- and EUH-statements:	
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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.