

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

#### 1.1. Product identifier

Product form	: Mixture
Trade name	: PUMPKIN MERINGUE CLP #EU56470F
UFI	: 6RCN-CCSX-G00A-4R49
Product code	: EU56470F
Type of product	: Perfumes, fragrances
Product group	: Trade product

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

##### 1.2.1. Relevant identified uses

Main use category	: Professional use, Industrial use
Industrial/Professional use spec	: Industrial For professional use only
Use of the substance/mixture	: Perfumes, fragrances
Function or use category	: Odour agents

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

FRENCH COLOR & FRAGRANCE International GmbH  
Mittlerer Weg 35  
DE 79424 Auggen  
Germany  
T 49-7631-931-8900  
[SDS@frenchcolor.com](mailto:SDS@frenchcolor.com), [www.frenchcolor.com](http://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
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
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

Causes serious eye irritation. 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
Signal word (CLP)	:	Warning	

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Contains	: Benzyl salicylate; alpha-Methylcinnamic aldehyde; benzyl alcohol; Linalool; Eugenol; Hexyl cinnamic aldehyde; COUMARIN; Cyclamal
Hazard statements (CLP)	: H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 - IF ON SKIN: Wash with plenty of water.
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

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Bis(2-ethylhexyl) adipate substance with national workplace exposure limit(s) (PL)	CAS-No.: 103-23-1 EC-No.: 203-090-1 REACH-no: 01-2119439699-19	31.1 – 62.15	Not classified
benzyl benzoate	CAS-No.: 120-51-4 EC-No.: 204-402-9 EC Index-No.: 607-085-00-9 REACH-no: 01-2119976371-33	4.6 – 9.2843	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 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	2 – 4	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Vanillin	CAS-No.: 121-33-5 EC-No.: 204-465-2 REACH-no: 01-2119516040-60	2 – 4	Eye Irrit. 2, H319
alpha-Methylcinnamic aldehyde	CAS-No.: 101-39-3 EC-No.: 202-938-8 REACH-no: 01-2119538797-21	2 – 4	Skin Sens. 1, H317 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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: 01-2119492630-38	1 – 2	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42	0.6 – 1.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
GAMMA-OCTALACTONE	CAS-No.: 104-50-7 EC-No.: 203-208-1 REACH-no: 01-2120793635-41	0.6 – 1.1	Skin Irrit. 2, H315
Eugenol	CAS-No.: 97-53-0 EC-No.: 202-589-1 REACH-no: 01-2119971802-33	0.5 – 1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Hexyl cinnamic aldehyde	CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092-50	0.5 – 1	Skin Sens. 1, H317 Aquatic Chronic 2, H411
COUMARIN	CAS-No.: 91-64-5 EC-No.: 202-086-7 REACH-no: 01-2119943756-26	0.3 – 0.5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Cyclamal	CAS-No.: 103-95-7 EC-No.: 203-161-7 REACH-no: 01-2119970582-32	0.3 – 0.5	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
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: 01-2119455540-44	0.1 – 0.2	Acute Tox. 4 (Oral), H302
acetic acid ... % 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.: 64-19-7 EC-No.: 200-580-7 EC Index-No.: 607-002-00-6	0 – 0.05	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314
propionic acid ... % 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.: 79-09-4 EC-No.: 201-176-3 EC Index-No.: 607-089-00-0	0 – 0.01	Flam. Liq. 3, H226 Skin Corr. 1B, H314 STOT SE 3, H335

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-furaldehyde substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, PL, PT, RO, SE, SK, NO, CH)	CAS-No.: 98-01-1 EC-No.: 202-627-7 EC Index-No.: 605-010-00-4	0 – 0.0005	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
acetic acid ... %	CAS-No.: 64-19-7 EC-No.: 200-580-7 EC Index-No.: 607-002-00-6	(10 ≤ C < 25) Eye Irrit. 2, H319 (10 ≤ C < 25) Skin Irrit. 2, H315 (25 ≤ C < 90) Skin Corr. 1B, H314 (90 ≤ C < 100) Skin Corr. 1A, H314
propionic acid ... %	CAS-No.: 79-09-4 EC-No.: 201-176-3 EC Index-No.: 607-089-00-0	(10 ≤ C < 100) STOT SE 3, H335 (10 ≤ C < 25) Eye Irrit. 2, H319 (10 ≤ C < 25) Skin Irrit. 2, H315 (25 ≤ C < 100) Skin Corr. 1B, H314

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Get medical advice/attention. on this label). If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: 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 and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

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

Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Sand. Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

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

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

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

#### 6.3. Methods and material for containment and cleaning up

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 : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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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.
- 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.

#### Germany

- Storage class (LGK, TRGS 510)
- : LGK 12 - Non-combustible liquids
- Joint storage table
- |          |         |          |          |           |
|----------|---------|----------|----------|-----------|
| 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 |
- Joint storage not permitted for
- : LGK 1, LGK 6.2, LGK 7
- Joint storage with restrictions permitted for
- : LGK 4.1A, LGK 4.3, LGK 5.1C
- Joint storage permitted for
- : LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, 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

#### Switzerland

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

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

Bis(2-ethylhexyl) adipate (103-23-1)	
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	400 mg/m³
benzyl alcohol (100-51-6)	
Bulgaria - Occupational Exposure Limits	
OEL TWA	5 mg/m³
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	40 mg/m³
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	45 mg/m³
	10 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	22 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)

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<b>benzyl alcohol (100-51-6)</b>	
	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
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	5 mg/m <sup>3</sup>
OEL chemical category	Skin notation
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	240 mg/m <sup>3</sup>
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	22 mg/m <sup>3</sup>
	5 ppm
OEL STEL	44 mg/m <sup>3</sup>
	10 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	22 mg/m <sup>3</sup> (aerosol, vapour)
	5 ppm (aerosol, vapour)
OEL chemical category	Skin notation
<b>benzaldehyde (100-52-7)</b>	
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	4.4 mg/m <sup>3</sup>
	1 ppm
HTP (OEL C)	17.4 mg/m <sup>3</sup>
	4 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	5 mg/m <sup>3</sup>
CK (OEL STEL)	10 mg/m <sup>3</sup>
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	5 mg/m <sup>3</sup>
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	10 mg/m <sup>3</sup>
NDSch (OEL STEL)	40 mg/m <sup>3</sup>

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acetic acid ... % (64-19-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	25 mg/m³
	10 ppm
IOEL STEL	50 mg/m³
	20 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	25 mg/m³
	10 ppm
MAK (OEL STEL)	50 mg/m³
	20 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	25 mg/m³
	10 ppm
OEL STEL	38 mg/m³
	15 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	25 mg/m³
	10 ppm
OEL STEL	50 mg/m³
	20 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	25 mg/m³
	10 ppm
KGVl (OEL STEL)	50 mg/m³
	20 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA	25 mg/m³
	10 ppm
OEL STEL	50 mg/m³
	20 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	25 mg/m³
Denmark - Occupational Exposure Limits	
OEL TWA	25 mg/m³
	10 ppm
OEL STEL	50 mg/m³
	20 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	25 mg/m³



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acetic acid ... % (64-19-7)	
	10 ppm
OEL STEL	25 mg/m <sup>3</sup>
	10 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	13 mg/m <sup>3</sup>
	5 ppm
HTP (OEL STEL)	25 mg/m <sup>3</sup>
	10 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	25 mg/m <sup>3</sup> (restrictive limit)
	10 ppm (restrictive limit)
VLE (OEL C/STEL)	50 mg/m <sup>3</sup> (indicative limit)
	20 ppm (indicative limit)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	25 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar - Occupational Exposure Limits	
OEL TWA	25 mg/m <sup>3</sup>
	10 ppm
OEL STEL	50 mg/m <sup>3</sup>
	20 ppm
Greece - Occupational Exposure Limits	
OEL TWA	25 mg/m <sup>3</sup>
	10 ppm
OEL STEL	37 mg/m <sup>3</sup>
	15 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	25 mg/m <sup>3</sup>
CK (OEL STEL)	50 mg/m <sup>3</sup>
Ireland - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>
	20 ppm
OEL STEL	50 mg/m <sup>3</sup>
	20 ppm
Italy - Occupational Exposure Limits	
OEL TWA	10 mg/m <sup>3</sup>
	25 ppm
OEL STEL	50 mg/m <sup>3</sup>

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acetic acid ... % (64-19-7)	
	20 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	25 mg/m³
	10 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	25 mg/m³
	10 ppm
TPRV (OEL STEL)	50 mg/m³
	20 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA	25 mg/m³
	10 ppm
OEL STEL	50 mg/m³
	20 ppm
Malta - Occupational Exposure Limits	
OEL TWA	25 mg/m³
	10 ppm
OEL STEL	50 mg/m³
	20 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	25 mg/m³
	10 ppm
TGG-15min (OEL STEL)	50 mg/m³
	20 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	25 mg/m³
NDSch (OEL STEL)	50 mg/m³
Portugal - Occupational Exposure Limits	
OEL TWA	25 mg/m³ (indicative limit value)
	10 ppm (indicative limit value)
OEL STEL	50 mg/m³ (indicative limit value)
	20 ppm (indicative limit value)
Romania - Occupational Exposure Limits	
OEL TWA	25 mg/m³ (for gaseous or vapor phase chemicals, the limit value is expressed at 20°C and 101.3 kPa)
	10 ppm
OEL STEL	50 mg/m³ (for gaseous or vapor phase chemicals, the limit value is expressed at 20°C and 101.3 kPa)
	20 ppm

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acetic acid ... % (64-19-7)	
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	25 mg/m <sup>3</sup>
	10 ppm
NPHV (OEL C)	50 mg/m <sup>3</sup>
Slovenia - Occupational Exposure Limits	
OEL TWA	25 mg/m <sup>3</sup>
	10 ppm
OEL STEL	50 mg/m <sup>3</sup>
	20 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	25 mg/m <sup>3</sup>
	10 ppm
VLA-EC (OEL STEL)	50 mg/m <sup>3</sup>
	20 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	13 mg/m <sup>3</sup>
	5 ppm
KGV (OEL STEL)	25 mg/m <sup>3</sup>
	10 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	25 mg/m <sup>3</sup>
	10 ppm
WEL STEL (OEL STEL)	50 mg/m <sup>3</sup>
	20 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	25 mg/m <sup>3</sup>
	10 ppm
Korttidsverdi (OEL STEL)	50 mg/m <sup>3</sup> (value from the regulation)
	20 ppm (value from the regulation)
OEL chemical category	Allergenic substance
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	25 mg/m <sup>3</sup>
	10 ppm
KZGW (OEL STEL)	50 mg/m <sup>3</sup>
	20 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	10 ppm
ACGIH OEL STEL	15 ppm

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propionic acid ... % (79-09-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	31 mg/m³
	10 ppm
IOEL STEL	62 mg/m³
	20 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	31 mg/m³
	10 ppm
MAK (OEL STEL)	62 mg/m³
	20 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	31 mg/m³
	10 ppm
OEL STEL	62 mg/m³
	20 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	31 mg/m³
	10 ppm
OEL STEL	62 mg/m³
	20 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	31 mg/m³
	10 ppm
KGVI (OEL STEL)	62 mg/m³
	20 ppm
Cyprus - Occupational Exposure Limits	
OEL TWA	31 mg/m³
	10 ppm
OEL STEL	62 mg/m³
	20 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	30 mg/m³
Denmark - Occupational Exposure Limits	
OEL TWA	31 mg/m³
	10 ppm
OEL STEL	62 mg/m³
	20 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	30 mg/m³

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propionic acid ... % (79-09-4)	
	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
	20 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	31 mg/m <sup>3</sup>
	10 ppm
HTP (OEL STEL)	61 mg/m <sup>3</sup>
	20 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	31 mg/m <sup>3</sup> (indicative limit)
	10 ppm (indicative limit)
VLE (OEL C/STEL)	62 mg/m <sup>3</sup> (indicative limit)
	20 ppm (indicative limit)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	31 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar - Occupational Exposure Limits	
OEL TWA	31 mg/m <sup>3</sup>
	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
	20 ppm
Greece - Occupational Exposure Limits	
OEL TWA	30 mg/m <sup>3</sup>
	10 ppm
OEL STEL	60 mg/m <sup>3</sup>
	20 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	31 mg/m <sup>3</sup>
CK (OEL STEL)	62 mg/m <sup>3</sup>
Ireland - Occupational Exposure Limits	
OEL TWA	31 mg/m <sup>3</sup>
	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
	20 ppm
Italy - Occupational Exposure Limits	
OEL TWA	31 mg/m <sup>3</sup>
	10 ppm
OEL STEL	62 mg/m <sup>3</sup>

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propionic acid ... % (79-09-4)	
	20 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	31 mg/m³
	10 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	31 mg/m³
	10 ppm
TPRV (OEL STEL)	62 mg/m³
	20 ppm
Luxembourg - Occupational Exposure Limits	
OEL TWA	31 mg/m³
	10 ppm
OEL STEL	62 mg/m³
	20 ppm
Malta - Occupational Exposure Limits	
OEL TWA	31 mg/m³
	10 ppm
OEL STEL	62 mg/m³
	20 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	31 mg/m³
	10 ppm
TGG-15min (OEL STEL)	62 mg/m³
	20 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	30 mg/m³
NDSch (OEL STEL)	45 mg/m³
Portugal - Occupational Exposure Limits	
OEL TWA	31 mg/m³ (indicative limit value)
	10 ppm (indicative limit value)
OEL STEL	62 mg/m³ (indicative limit value)
	20 ppm (indicative limit value)
Romania - Occupational Exposure Limits	
OEL TWA	31 mg/m³
	10 ppm
OEL STEL	62 mg/m³
	20 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	31 mg/m³

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propionic acid ... % (79-09-4)	
	10 ppm
NPHV (OEL C)	62 mg/m <sup>3</sup>
Slovenia - Occupational Exposure Limits	
OEL TWA	31 mg/m <sup>3</sup>
	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
	20 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	31 mg/m <sup>3</sup> (indicative limit value)
	10 ppm (indicative limit value)
VLA-EC (OEL STEL)	62 mg/m <sup>3</sup>
	20 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	30 mg/m <sup>3</sup>
	10 ppm
KGV (OEL STEL)	62 mg/m <sup>3</sup>
	20 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	31 mg/m <sup>3</sup>
	10 ppm
WEL STEL (OEL STEL)	46 mg/m <sup>3</sup>
	15 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	30 mg/m <sup>3</sup>
	10 ppm
Korttidsverdi (OEL STEL)	45 mg/m <sup>3</sup> (value calculated)
	20 ppm (value calculated)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	30 mg/m <sup>3</sup>
	10 ppm
KZGW (OEL STEL)	60 mg/m <sup>3</sup>
	20 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	10 ppm
2-furaldehyde (98-01-1)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	20 mg/m <sup>3</sup>
	5 ppm
OEL chemical category	Skin notation, Group B Carcinogen

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2-furaldehyde (98-01-1)	
Belgium - Occupational Exposure Limits	
OEL TWA	8 mg/m³
	2 ppm
OEL chemical category	Skin
Bulgaria - Occupational Exposure Limits	
OEL TWA	10 mg/m³ (Furfurol)
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	8 mg/m³
	2 ppm
KGVI (OEL STEL)	20 mg/m³
	5 ppm
OEL chemical category	Skin notation
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	10 mg/m³
OEL chemical category	Potential for cutaneous absorption
Denmark - Occupational Exposure Limits	
OEL TWA	7.9 mg/m³
	2 ppm
OEL STEL	15.8 mg/m³
	4 ppm
OEL chemical category	Potential for cutaneous absorption
Estonia - Occupational Exposure Limits	
OEL TWA	8 mg/m³
	2 ppm
OEL STEL	20 mg/m³
	5 ppm
OEL chemical category	Skin notation
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	8 mg/m³
	2 ppm
HTP (OEL STEL)	20 mg/m³
	5 ppm
OEL chemical category	Potential for cutaneous absorption
France - Occupational Exposure Limits	
VLE (OEL C/STEL)	8 mg/m³
	2 ppm
OEL chemical category	Carcinogen category 2



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2-furaldehyde (98-01-1)	
France - Biological limit values	
BLV	Parameter: Total furoic acid - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
Greece - Occupational Exposure Limits	
OEL TWA	20 mg/m <sup>3</sup>
	5 ppm
OEL STEL	40 mg/m <sup>3</sup>
	10 ppm
OEL chemical category	skin - potential for cutaneous absorption
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	8 mg/m <sup>3</sup>
CK (OEL STEL)	20 mg/m <sup>3</sup>
OEL chemical category	Sensitizer, Potential for cutaneous absorption
Ireland - Occupational Exposure Limits	
OEL TWA	8 mg/m <sup>3</sup>
	2 ppm
OEL STEL	20 mg/m <sup>3</sup>
	5 ppm
OEL chemical category	Potential for cutaneous absorption
Latvia - Occupational Exposure Limits	
OEL TWA	10 mg/m <sup>3</sup>
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	8 mg/m <sup>3</sup>
	2 ppm
TPRV (OEL STEL)	20 mg/m <sup>3</sup>
	5 ppm
OEL chemical category	Carcinogen, Skin notation
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	10 mg/m <sup>3</sup>
NDSch (OEL STEL)	25 mg/m <sup>3</sup>
Portugal - Occupational Exposure Limits	
OEL TWA	2 ppm
OEL chemical category	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, skin - potential for cutaneous exposure
Romania - Occupational Exposure Limits	
OEL TWA	10 mg/m <sup>3</sup>
	2.5 ppm
OEL STEL	15 mg/m <sup>3</sup>

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2-furaldehyde (98-01-1)	
	4 ppm
OEL chemical category	C2
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	7.9 mg/m³
	2 ppm
OEL chemical category	Potential for cutaneous absorption
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	8 mg/m³
	2 ppm
OEL chemical category	skin - potential for cutaneous absorption
Spain - Biological limit values	
BLV	200 mg/l Parameter: Furoic acid - Medium: urine - Sampling time: end of shift (with hydrolysis)
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	8 mg/m³
	2 ppm
KGV (OEL STEL)	20 mg/m³
	5 ppm
OEL chemical category	Skin notation
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	8 mg/m³
	2 ppm
WEL STEL (OEL STEL)	20 mg/m³
	5 ppm
WEL chemical category	Potential for cutaneous absorption
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	8 mg/m³
	2 ppm
Korttidsverdi (OEL STEL)	16 mg/m³ (value calculated)
	4 ppm (value calculated)
OEL chemical category	Skin notation
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	8 mg/m³
	2 ppm
OEL chemical category	Skin notation
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.2 ppm
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, Skin - potential significant contribution to overall exposure by the cutaneous route

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### 2-furaldehyde (98-01-1)

#### USA - ACGIH - Biological Exposure Indices

BEI	200 mg/l Parameter: Furoic acid with hydrolysis - Medium: urine - Sampling time: end of shift (nonspecific)
-----	-------------------------------------------------------------------------------------------------------------

#### 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

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment:

Avoid all unnecessary exposure.

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



##### 8.2.2.1. Eye and face protection

###### Eye protection:

Chemical goggles or safety glasses. Safety glasses

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Wear suitable protective clothing

###### Hand protection:

Wear protective gloves.

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

Wear appropriate mask

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

##### Other information:

Do not eat, drink or smoke during use.

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### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Conforms to standard.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 93.3 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 0.00176519 mm Hg (calculated value)
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

#### 9.2. Other information

##### 9.2.1. Information with regard to physical hazard classes

No additional information available

##### 9.2.2. Other safety characteristics

VOC content : 5.4667 % (calculated value)(CARB VOC) (%w/w)

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

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### SECTION 11: Toxicological information

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

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

Bis(2-ethylhexyl) adipate (103-23-1)	
LD50 oral rat	5600 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	8410 mg/kg (Source: NLM_CIP)
LC50 Inhalation - Rat	> 5.7 mg/l/4h
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)
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)
Vanillin (121-33-5)	
LD50 dermal rabbit	> 5010 mg/kg (Source: OECD_SIDS)
LD50 dermal	2600 mg/kg bodyweight
alpha-Methylcinnamic aldehyde (101-39-3)	
LD50 oral rat	2050 mg/kg (Source: NLM_CIP)
LD50 oral	2050 mg/kg
LD50 dermal rabbit	> 5 g/kg (Source: NLM_CIP)
benzyl alcohol (100-51-6)	
LD50 oral rat	1230 mg/kg (Source: NLM_CIP)
LD50 oral	1570 mg/kg
Linalool (78-70-6)	
LD50 oral	2790 mg/kg
GAMMA-OCTALACTONE (104-50-7)	
LD50 oral rat	4400 mg/kg (Source: NLM_CIP)
LD50 oral	4400 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)
Eugenol (97-53-0)	
LD50 oral rat	1930 mg/kg (Source: NZ_CCID)
LD50 oral	2500 mg/kg bodyweight
Hexyl cinnamic aldehyde (101-86-0)	
LD50 oral rat	3100 mg/kg (Source: NLM_CIP)
LD50 oral	3100 mg/kg bodyweight

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Hexyl cinnamic aldehyde (101-86-0)	
LD50 dermal rabbit	> 3000 mg/kg (Source: EPA_HPVS)
LC50 Inhalation - Rat	> 5 mg/l/4h
COUMARIN (91-64-5)	
LD50 oral rat	> 5000 mg/kg (Source: JAPAN_GHS)
LD50 dermal rat	293 mg/kg (Source: ECHA_API)
Cyclamal (103-95-7)	
LD50 oral rat	3810 mg/kg (Source: NLM_CIP)
LD50 oral	3810 mg/kg bodyweight
LD50 dermal rat	> 5000 mg/kg (Source: ECHA_API)
benzaldehyde (100-52-7)	
LD50 oral rat	1292 mg/kg (Source: JAPAN_GHS)
LD50 dermal rabbit	> 1250 mg/kg (Source: JAPAN_GHS)
acetic acid ... % (64-19-7)	
LD50 oral rat	3310 mg/kg (Source: JAPAN_GHS)
LD50 oral	3310 mg/kg
LD50 dermal rabbit	1060 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat	11.4 mg/l/4h
propionic acid ... % (79-09-4)	
LD50 oral rat	351 mg/kg (Source: EFSA)
LD50 oral	3455 mg/kg
LD50 dermal rat	3235 mg/kg (Source: ECHA_API)
LD50 dermal	3235 mg/kg
LC50 Inhalation - Rat	> 19.7 mg/l (Exposure time: 1 h Source: ECHA_API)
2-furaldehyde (98-01-1)	
LD50 oral rat	125 mg/kg (Source: JAPAN_GHS)
LD50 dermal rabbit	500 – 1000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat	756 mg/m³ (Exposure time: 1 h Source: WHO)
LC50 Inhalation - Rat (Vapours)	1 mg/l
Skin corrosion/irritation	: Not classified
acetic acid ... % (64-19-7)	
pH	2.4 (conc: 1 M (aqueous solution))
Serious eye damage/irritation	: Causes serious eye irritation.
acetic acid ... % (64-19-7)	
pH	2.4 (conc: 1 M (aqueous solution))
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Bis(2-ethylhexyl) adipate (103-23-1)	
IARC group	3 - Not classifiable

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<b>Eugenol (97-53-0)</b>	
IARC group	3 - Not classifiable
<b>COUMARIN (91-64-5)</b>	
IARC group	3 - Not classifiable
<b>2-furaldehyde (98-01-1)</b>	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
<b>propionic acid ... % (79-09-4)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>2-furaldehyde (98-01-1)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
<b>benzyl benzoate (120-51-4)</b>	
Viscosity, kinematic	7.456 mm²/s

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

<b>Bis(2-ethylhexyl) adipate (103-23-1)</b>	
LC50 - Fish [1]	0.48 – 0.85 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
LC50 - Fish [2]	0.48 – 0.85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
EC50 - Crustacea [1]	> 1.6 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	> 500 mg/l (Species: Desmodesmus subspicatus)
<b>benzyl benzoate (120-51-4)</b>	
LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
NOEC (chronic)	0.168 mg/l
<b>Benzyl salicylate (118-58-1)</b>	
LC50 - Fish [1]	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)

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<b>Vanillin (121-33-5)</b>	
LC50 - Fish [1]	53 – 61.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	88 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
NOEC (acute)	10000 mg/kg (Exposure time: 42 Days - Species: Eisenia foetida [soil dry weight])
<b>benzyl alcohol (100-51-6)</b>	
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)
<b>Linalool (78-70-6)</b>	
EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)
<b>Eugenol (97-53-0)</b>	
LC50 - Fish [1]	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
<b>benzaldehyde (100-52-7)</b>	
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)
<b>acetic acid ... % (64-19-7)</b>	
LC50 - Fish [1]	79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
LC50 - Fish [2]	75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
EC50 - Crustacea [1]	65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>propionic acid ... % (79-09-4)</b>	
LC50 - Fish [1]	> 1 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
LC50 - Fish [2]	73 – 99.7 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
EC50 72h - Algae [1]	45.8 mg/l (Species: Desmodesmus subspicatus)
EC50 96h - Algae [1]	43 mg/l (Species: Desmodesmus subspicatus)
<b>2-furaldehyde (98-01-1)</b>	
LC50 - Fish [1]	13.4 – 19.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
LC50 - Fish [2]	16.79 – 26.35 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)

## 12.2. Persistence and degradability

<b>PUMPKIN MERINGUE CLP #EU56470F</b>	
Persistence and degradability	Not established.
<b>Bis(2-ethylhexyl) adipate (103-23-1)</b>	
Persistence and degradability	Rapidly degradable
<b>benzyl benzoate (120-51-4)</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.



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<b>Benzyl salicylate (118-58-1)</b>	
Persistence and degradability	Rapidly degradable
<b>Vanillin (121-33-5)</b>	
Persistence and degradability	Rapidly degradable
<b>alpha-Methylcinnamic aldehyde (101-39-3)</b>	
Persistence and degradability	Rapidly degradable
<b>benzyl alcohol (100-51-6)</b>	
Persistence and degradability	Rapidly degradable
<b>Linalool (78-70-6)</b>	
Persistence and degradability	Rapidly degradable
<b>GAMMA-OCTALACTONE (104-50-7)</b>	
Persistence and degradability	Rapidly degradable
<b>Eugenol (97-53-0)</b>	
Persistence and degradability	Rapidly degradable
<b>Hexyl cinnamic aldehyde (101-86-0)</b>	
Persistence and degradability	Rapidly degradable
<b>COUMARIN (91-64-5)</b>	
Persistence and degradability	Rapidly degradable
<b>Cyclamal (103-95-7)</b>	
Persistence and degradability	Rapidly degradable
<b>benzaldehyde (100-52-7)</b>	
Persistence and degradability	Rapidly degradable
<b>acetic acid ... % (64-19-7)</b>	
Persistence and degradability	Rapidly degradable
<b>propionic acid ... % (79-09-4)</b>	
Persistence and degradability	Rapidly degradable
<b>2-furaldehyde (98-01-1)</b>	
Persistence and degradability	Rapidly degradable
<b>12.3. Bioaccumulative potential</b>	
<b>PUMPKIN MERINGUE CLP #EU56470F</b>	
Bioaccumulative potential	Not established.
<b>Bis(2-ethylhexyl) adipate (103-23-1)</b>	
BCF - Fish [1]	(27 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	8.94 (at 25 °C)
<b>benzyl benzoate (120-51-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.97 (at 25 °C)

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<b>benzyl benzoate (120-51-4)</b>	
Bioaccumulative potential	Not established.
<b>Benzyl salicylate (118-58-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	4
<b>Vanillin (121-33-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.23 (at 22 °C)
<b>benzyl alcohol (100-51-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.05
<b>GAMMA-OCTALACTONE (104-50-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.89 (at 25 °C (at pH 6.4)
<b>Eugenol (97-53-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.83 (at 30 °C (at pH 5.5)
<b>Cyclamal (103-95-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.4 (at 35 °C)
<b>benzaldehyde (100-52-7)</b>	
BCF - Fish [1]	(no significant bioaccumulation)
Partition coefficient n-octanol/water (Log Pow)	1.4 (at 25 °C)
<b>acetic acid ... % (64-19-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	-0.17 (at 25 °C (at pH 7)
<b>propionic acid ... % (79-09-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.25 – 0.33
<b>2-furaldehyde (98-01-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.67

### 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

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecological information	: Avoid release to the environment.

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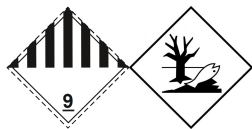




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HP Code : HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.  
HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

### SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
<b>14.2. UN proper shipping name</b>				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha-Methylcinnamic aldehyde)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha-Methylcinnamic aldehyde)	Environmentally hazardous substance, liquid, n.o.s. (alpha-Methylcinnamic aldehyde)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha-Methylcinnamic aldehyde)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha-Methylcinnamic aldehyde)
<b>Transport document description</b>				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha-Methylcinnamic aldehyde), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha-Methylcinnamic aldehyde), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (alpha-Methylcinnamic aldehyde), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha-Methylcinnamic aldehyde), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha-Methylcinnamic aldehyde), 9, III
<b>14.3. Transport hazard class(es)</b>				
9	9	9	9	9
				
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
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 available				

### 14.6. Special precautions for user

#### Overland transport

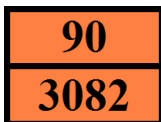
Classification code (ADR) : M6  
Special provisions (ADR) : 274, 335, 375, 601  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, LP01, R001  
Special packing provisions (ADR) : PP1  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T4  
Portable tank and bulk container special provisions (ADR) : TP1, TP29

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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 and handling (ADR) : CV13  
Hazard identification number (Kemler No.) : 90  
Orange plates :



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

### Transport by sea

Special provisions (IMDG) : 274, 335, 969  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : LP01, P001  
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  
EmS-No. (Spillage) : S-F  
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 (RID) : TP1, TP29  
Tank codes for RID tanks (RID) : LGBV  
Transport category (RID) : 3  
Special provisions for carriage – Packages (RID) : W12

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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
3(a)	acetic acid ... % ; propionic acid ... % ; 2-furaldehyde	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 MERINGUE CLP #EU56470F ; benzyl benzoate ; Benzyl salicylate ; alpha-Methylcinnamic aldehyde ; benzyl alcohol ; Linalool ; GAMMA-OCTALACTONE ; Eugenol ; Hexyl cinnamic aldehyde ; Cyclamal ; benzaldehyde ; acetic acid ... % ; propionic acid ... % ; 2-furaldehyde	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 MERINGUE CLP #EU56470F ; benzyl benzoate ; Benzyl salicylate ; alpha-Methylcinnamic aldehyde ; Hexyl cinnamic aldehyde ; Cyclamal ; 2-furaldehyde	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.	acetic acid ... % ; propionic acid ... % ; 2-furaldehyde	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)

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### 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)

### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

### VOC Directive (2004/42)

VOC content : 5.4667 % (calculated value)(CARB VOC) (%w/w)

### 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	
Code	Description
RG 74	Occupational disorders caused by furfural and furfuryl alcohol
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

#### Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

ABM category : A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment  
SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are 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

### 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 (Dermal)	Acute toxicity (dermal), Category 3
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Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), 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
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
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.
H351	Suspected of causing cancer.
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.
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
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.