

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

#### 1.1. Product identifier

Product form	: Mixture
Trade name	: BANANA #EU55371F
UFI	: 8Q1U-29PM-H00W-F477
Product code	: EU55371F
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]

Skin corrosion/irritation, Category 2	H315
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412
Full text of H- and EUH-statements: see section 16	

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

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

#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Contains

: Lemon oil ; Orange oil ; Benzyl salicylate; Citral; Allyl cyclohexylpropionate; Hexyl cinnamic aldehyde; Eugenol; Heliotropine

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Hazard statements (CLP)	: H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. 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/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Isoamyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, DE, DK, EE, ES, FI, FR, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, TR); substance with a Community workplace exposure limit	CAS-No.: 123-92-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2 REACH-no: 01-2119548408-32	4.1 – 8.2569	Flam. Liq. 3, H226
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	1.8 – 3.6697	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Allyl caproate	CAS-No.: 123-68-2 EC-No.: 204-642-4 REACH-no: 01-2119983573-26	1.4 – 2.7523	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Lemon oil	CAS-No.: 8008-56-8 EC-No.: 284-515-8	1.4 – 2.7523	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361 Aquatic Chronic 2, H411
Orange oil	CAS-No.: 8008-57-9 EC-No.: 232-433-8 REACH-no: 01-2119493353-35	1.1 – 2.2936	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Terpinyl acetate	CAS-No.: 80-26-2 EC-No.: 201-265-7	0.9 – 1.8349	Aquatic Chronic 2, H411
Benzyl acetate substance with national workplace exposure limit(s) (BE, DK, ES, IE, LT, LV, PT, RO)	CAS-No.: 140-11-4 EC-No.: 205-399-7 REACH-no: 01-2119638272-42	0.9 – 1.8349	Aquatic Chronic 3, H412
Benzyl salicylate	CAS-No.: 118-58-1 EC-No.: 204-262-9 EC Index-No.: 607-754-00-5 REACH-no: 01-2119969442-31	0.9 – 1.8349	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Dimethylbenzyl carbinyl acetate(DMBCA)	CAS-No.: 151-05-3 EC-No.: 205-781-3	0.7 – 1.3762	Aquatic Chronic 3, H412
Citral substance with national workplace exposure limit(s) (BE, ES, IE, PL, PT)	CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3 REACH-no: 01-2119462829-23	0.7 – 1.3761	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Undecavertol	CAS-No.: 81782-77-6 EC-No.: 279-815-0	0.6 – 1.2844	Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Allyl cyclohexylpropionate	CAS-No.: 2705-87-5 EC-No.: 220-292-5	0.4 – 0.7339	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Isobutyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH)	CAS-No.: 110-19-0 EC-No.: 203-745-1 EC Index-No.: 607-026-00-7	0.3 – 0.6422	Flam. Liq. 2, H225 STOT SE 3, H336
Hexyl cinnamic aldehyde	CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092-50	0.2 – 0.4587	Skin Sens. 1, H317 Aquatic Chronic 2, H411
Eugenol	CAS-No.: 97-53-0 EC-No.: 202-589-1 REACH-no: 01-2119971802-33	0.2 – 0.367	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Heliotropine	CAS-No.: 120-57-0 EC-No.: 204-409-7 REACH-no: 01-2119983608-21	0.2 – 0.367	Skin Sens. 1B, H317

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general

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

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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 eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

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

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

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
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.
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### 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.
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#### 6.1.2. For emergency responders

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

### 6.2. Environmental precautions

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

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

Methods for cleaning up	: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information	: Dispose of materials or solid residues at an authorized site.

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### 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.

### 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.

### 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

Isoamyl acetate (123-92-2)	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	270 mg/m <sup>3</sup>
IOEL TWA [ppm]	50 ppm
IOEL STEL	540 mg/m <sup>3</sup>
IOEL STEL [ppm]	100 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	270 mg/m <sup>3</sup> (Pentyl acetate (all isomers))
MAK (OEL TWA) [ppm]	50 ppm (Pentyl acetate (all isomers))
MAK (OEL STEL)	540 mg/m <sup>3</sup> (Pentylacetate)
MAK (OEL STEL) [ppm]	100 ppm (Pentylacetate)
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	540 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm

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<b>Isoamyl acetate (123-92-2)</b>	
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	540 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA) [1]	270 mg/m <sup>3</sup>
GVI (OEL TWA) [2]	50 ppm
KGVI (OEL STEL)	540 mg/m <sup>3</sup>
KGVI (OEL STEL) [ppm]	100 ppm
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	540 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	271 mg/m <sup>3</sup> (Amyl acetate, all isomers)
OEL TWA [2]	50 ppm (Amyl acetate, all isomers)
OEL STEL	540 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	540 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA) [1]	270 mg/m <sup>3</sup> (Pentyl acetate)
HTP (OEL TWA) [2]	50 ppm (Pentyl acetate)
HTP (OEL STEL)	540 mg/m <sup>3</sup>
HTP (OEL STEL) [ppm]	100 ppm
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	270 mg/m <sup>3</sup> (restrictive limit)
VME (OEL TWA) [ppm]	50 ppm (restrictive limit)
VLE (OEL C/STEL)	540 mg/m <sup>3</sup> (restrictive limit)
VLE (OEL C/STEL) [ppm]	100 ppm (restrictive limit)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	270 mg/m <sup>3</sup>
AGW (OEL TWA) [2]	50 ppm

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<b>Isoamyl acetate (123-92-2)</b>	
<b>Gibraltar - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	540 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	530 mg/m <sup>3</sup>
OEL TWA [ppm]	100 ppm
OEL STEL	800 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	270 mg/m <sup>3</sup>
CK (OEL STEL)	540 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [1]	260 mg/m <sup>3</sup>
OEL TWA [2]	50 ppm
OEL STEL	520 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	540 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	270 mg/m <sup>3</sup>
IPRV (OEL TWA) [ppm]	50 ppm
TPRV (OEL STEL)	540 mg/m <sup>3</sup>
TPRV (OEL STEL) [ppm]	100 ppm
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	540 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm

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<b>Isoamyl acetate (123-92-2)</b>	
OEL STEL	540 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-15min (OEL STEL)	530 mg/m <sup>3</sup>
TGG-15min (OEL STEL) [ppm]	98.1 ppm
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	250 mg/m <sup>3</sup>
NDSch (OEL STEL)	500 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup> (indicative limit value)
OEL TWA [ppm]	50 ppm (indicative limit value (Pentyl acetate, all isomers))
OEL STEL	540 mg/m <sup>3</sup> (indicative limit value)
OEL STEL [ppm]	100 ppm (indicative limit value, regulated under Pentyl acetate, all isomers)
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	540 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA) [1]	270 mg/m <sup>3</sup>
NPHV (OEL TWA) [2]	50 ppm
NPHV (OEL C)	540 mg/m <sup>3</sup>
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	270 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	540 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	270 mg/m <sup>3</sup> (indicative limit value)
VLA-ED (OEL TWA) [2]	50 ppm (indicative limit value)
VLA-EC (OEL STEL)	540 mg/m <sup>3</sup>
VLA-EC (OEL STEL) [ppm]	100 ppm
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	270 mg/m <sup>3</sup> (Pentyl acetates)
NGV (OEL TWA) [ppm]	50 ppm (Pentyl acetates)
KTV (OEL STEL)	540 mg/m <sup>3</sup> (Pentyl acetates)
KTV (OEL STEL) [ppm]	100 ppm (Pentyl acetates)
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA) [1]	260 mg/m <sup>3</sup>

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<b>Isoamyl acetate (123-92-2)</b>	
Grenseverdi (OEL TWA) [2]	50 ppm
Korttidsverdi (OEL STEL)	325 mg/m <sup>3</sup> (value calculated)
Korttidsverdi (OEL STEL) [ppm]	75 ppm (value calculated)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA [ppm]	50 ppm (Pentyl acetate, all isomers)
ACGIH OEL STEL [ppm]	100 ppm (Pentyl acetate, all isomers)
<b>Benzyl alcohol (100-51-6)</b>	
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	40 mg/m <sup>3</sup>
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA) [1]	45 mg/m <sup>3</sup>
HTP (OEL TWA) [2]	10 ppm
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	22 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
AGW (OEL TWA) [2]	5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Chemical category	Skin notation
<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>
OEL TWA [ppm]	5 ppm
OEL STEL	44 mg/m <sup>3</sup>
OEL STEL [ppm]	10 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA) [1]	22 mg/m <sup>3</sup> (aerosol, vapour)
MAK (OEL TWA) [2]	5 ppm (aerosol, vapour)
OEL chemical category	Skin notation

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<b>Benzyl acetate (140-11-4)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	62 mg/m <sup>3</sup>
OEL TWA [ppm]	10 ppm
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	61 mg/m <sup>3</sup>
OEL TWA [2]	10 ppm
OEL STEL	122 mg/m <sup>3</sup>
OEL STEL [ppm]	20 ppm
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [2]	10 ppm
OEL STEL [ppm]	30 ppm (calculated)
<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>Portugal - Occupational Exposure Limits</b>	
OEL TWA [ppm]	10 ppm
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	50 mg/m <sup>3</sup>
OEL TWA [ppm]	8 ppm
OEL STEL	80 mg/m <sup>3</sup>
OEL STEL [ppm]	13 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	62 mg/m <sup>3</sup>
VLA-ED (OEL TWA) [2]	10 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA [ppm]	10 ppm
ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>Citral (5392-40-5)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	32 mg/m <sup>3</sup> (vapor and aerosol)
OEL TWA [ppm]	5 ppm (vapor and aerosol)
OEL chemical category	Skin
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [2]	5 ppm
OEL STEL [ppm]	15 ppm (calculated)
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	27 mg/m <sup>3</sup>

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<b>Citral (5392-40-5)</b>	
NDSCh (OEL STEL)	54 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA [ppm]	5 ppm (inhalable fraction; vapor)
OEL chemical category	Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [2]	5 ppm (inhalable fraction and vapor)
OEL chemical category	Sensitizer, skin - potential for cutaneous absorption
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA [ppm]	5 ppm (inhalable fraction and vapor)
ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer
<b>Isobutyl acetate (110-19-0)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	241 mg/m <sup>3</sup> (Butyl acetates)
MAK (OEL TWA) [ppm]	50 ppm (Butyl acetates)
MAK (OEL STEL)	480 mg/m <sup>3</sup> (Butyl acetate)
MAK (OEL STEL) [ppm]	100 ppm (Butyl acetate)
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	238 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	712 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	241 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	723 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA) [1]	241 mg/m <sup>3</sup>
GVI (OEL TWA) [2]	50 ppm
KGVI (OEL STEL)	723 mg/m <sup>3</sup>
KGVI (OEL STEL) [ppm]	150 ppm
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	241 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	723 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm

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<b>Isobutyl acetate (110-19-0)</b>	
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	241 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	241 mg/m <sup>3</sup> (Butyl acetate, all isomers)
OEL TWA [2]	50 ppm (Butyl acetate, all isomers)
OEL STEL	723 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	241 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	723 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA) [1]	240 mg/m <sup>3</sup> (Butyl acetate)
HTP (OEL TWA) [2]	50 ppm (Butyl acetate)
HTP (OEL STEL)	725 mg/m <sup>3</sup> (Butyl acetate)
HTP (OEL STEL) [ppm]	150 ppm (Butyl acetate)
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	241 mg/m <sup>3</sup> (restrictive limit)
VME (OEL TWA) [ppm]	50 ppm (restrictive limit)
VLE (OEL C/STEL)	723 mg/m <sup>3</sup> (restrictive limit)
VLE (OEL C/STEL) [ppm]	150 ppm (restrictive limit)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	300 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
AGW (OEL TWA) [2]	62 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	241 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	723 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	241 mg/m <sup>3</sup>
CK (OEL STEL)	723 mg/m <sup>3</sup>
OEL chemical category	Sensitizer
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [1]	241 mg/m <sup>3</sup>
OEL TWA [2]	50 ppm
OEL STEL	723 mg/m <sup>3</sup> (calculated)

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<b>Isobutyl acetate (110-19-0)</b>	
OEL STEL [ppm]	150 ppm (calculated)
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	241 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	723 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	241 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	241 mg/m <sup>3</sup>
IPRV (OEL TWA) [ppm]	50 ppm
TPRV (OEL STEL)	723 mg/m <sup>3</sup>
TPRV (OEL STEL) [ppm]	150 ppm
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	241 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	723 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	241 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	723 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	241 mg/m <sup>3</sup>
TGG-8u (OEL TWA) [ppm]	50 ppm
TGG-15min (OEL STEL)	723 mg/m <sup>3</sup>
TGG-15min (OEL STEL) [ppm]	150 ppm
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	240 mg/m <sup>3</sup>
NDSch (OEL STEL)	720 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	241 mg/m <sup>3</sup> (indicative limit value)
OEL TWA [ppm]	50 ppm (indicative limit value)
OEL STEL	723 mg/m <sup>3</sup> (indicative limit value)
OEL STEL [ppm]	150 ppm (indicative limit value)
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	715 mg/m <sup>3</sup>

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<b>Isobutyl acetate (110-19-0)</b>	
OEL TWA [ppm]	150 ppm
OEL STEL	950 mg/m <sup>3</sup>
OEL STEL [ppm]	200 ppm
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA) [1]	480 mg/m <sup>3</sup>
NPHV (OEL TWA) [2]	100 ppm
NPHV (OEL C)	700 mg/m <sup>3</sup>
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	241 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	723 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	241 mg/m <sup>3</sup>
VLA-ED (OEL TWA) [2]	50 ppm
VLA-EC (OEL STEL)	723 mg/m <sup>3</sup>
VLA-EC (OEL STEL) [ppm]	150 ppm
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	241 mg/m <sup>3</sup> (Butyl acetates)
NGV (OEL TWA) [ppm]	50 ppm (Butyl acetates)
KTV (OEL STEL)	723 mg/m <sup>3</sup> (Butyl acetates)
KTV (OEL STEL) [ppm]	150 ppm (Butyl acetates)
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	724 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	150 ppm
WEL STEL (OEL STEL)	903 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	187 ppm
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA) [1]	241 mg/m <sup>3</sup>
Grenseverdi (OEL TWA) [2]	50 ppm
Korttidsverdi (OEL STEL)	723 mg/m <sup>3</sup> (value from the regulation)
Korttidsverdi (OEL STEL) [ppm]	150 ppm (value from the regulation)
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA) [1]	240 mg/m <sup>3</sup>
MAK (OEL TWA) [2]	50 ppm
KZGW (OEL STEL)	720 mg/m <sup>3</sup>
KZGW (OEL STEL) [ppm]	150 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)

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### Isobutyl acetate (110-19-0)

ACGIH OEL STEL [ppm]

150 ppm (Butyl acetates, all isomers)

#### 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.

## 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.

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Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 70 °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	: Not available
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

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

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

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

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<b>Benzyl alcohol (100-51-6)</b>	
LD50 oral rat	1230 mg/kg
LD50 oral	1620 mg/kg bodyweight
LD50 dermal	2500 mg/kg bodyweight
<b>Allyl caproate (123-68-2)</b>	
LD50 oral	300 mg/kg bodyweight
LD50 dermal rabbit	820 mg/kg
LD50 dermal	300 mg/kg bodyweight
LC50 Inhalation - Rat (Vapours)	3 mg/l/4h
<b>Lemon oil (8008-56-8)</b>	
LD50 oral rat	2840 mg/kg
<b>Orange oil (8008-57-9)</b>	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
<b>Terpinyl acetate (80-26-2)</b>	
LD50 oral rat	5075 mg/kg
<b>Benzyl acetate (140-11-4)</b>	
LD50 oral rat	2490 mg/kg
LD50 oral	2490 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg
<b>Benzyl salicylate (118-58-1)</b>	
LD50 oral rat	2227 mg/kg
LD50 oral	2200 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg
<b>Dimethylbenzyl carbonyl acetate(DMBCA) (151-05-3)</b>	
LD50 oral rat	3300 mg/kg
LD50 oral	3300 mg/kg bodyweight
<b>Citral (5392-40-5)</b>	
LD50 oral rat	4960 mg/kg
LD50 dermal rabbit	2250 mg/kg
<b>Allyl cyclohexylpropionate (2705-87-5)</b>	
LD50 oral rat	585 mg/kg
LD50 oral	380 mg/kg bodyweight
LD50 dermal rabbit	1600 mg/kg
LD50 dermal	1600 mg/kg bodyweight
<b>Isobutyl acetate (110-19-0)</b>	
LD50 oral rat	15400 mg/kg
LD50 dermal rabbit	> 17400 mg/kg

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<b>Hexyl cinnamic aldehyde (101-86-0)</b>	
LD50 oral rat	3100 mg/kg
LD50 oral	3100 mg/kg bodyweight
LD50 dermal rabbit	> 3000 mg/kg
LC50 Inhalation - Rat	> 5 mg/l/4h
<b>Eugenol (97-53-0)</b>	
LD50 oral rat	1930 mg/kg
LD50 oral	2500 mg/kg bodyweight
<b>Heliotropine (120-57-0)</b>	
LD50 oral rat	2700 mg/kg
LD50 oral	2700 mg/kg bodyweight
LD50 dermal rat	> 5000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
<b>Benzyl acetate (140-11-4)</b>	
IARC group	3 - Not classifiable
<b>Eugenol (97-53-0)</b>	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
<b>Isobutyl acetate (110-19-0)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
<b>Orange oil (8008-57-9)</b>	
Hydrocarbon	Yes
<b>Heliotropine (120-57-0)</b>	
Viscosity, kinematic	Not applicable

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

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

## SECTION 12: Ecological information

### 12.1. Toxicity

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

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

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

<b>Benzyl alcohol (100-51-6)</b>	
LC50 - Fish [1]	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 - Fish [2]	10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	23 mg/l (Exposure time: 48 h - Species: water flea)
<b>Allyl caproate (123-68-2)</b>	
LC50 - Fish [1]	0.117 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
<b>Terpinyl acetate (80-26-2)</b>	
LC50 - Fish [1]	> 11 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
<b>Benzyl salicylate (118-58-1)</b>	
LC50 - Fish [1]	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
<b>Citral (5392-40-5)</b>	
EC50 - Crustacea [1]	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	16 mg/l (Species: Desmodesmus subspicatus)
EC50 96h - Algae [1]	19 mg/l (Species: Desmodesmus subspicatus)
<b>Allyl cyclohexylpropionate (2705-87-5)</b>	
LC50 - Fish [1]	0.13 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
<b>Isobutyl acetate (110-19-0)</b>	
LC50 - Fish [1]	17 mg/l (Exposure time: 96 h - Species: Oryzias latipes)
<b>Eugenol (97-53-0)</b>	
LC50 - Fish [1]	13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
<b>Heliotropine (120-57-0)</b>	
LC50 - Fish [1]	2.5 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static])
<b>12.2. Persistence and degradability</b>	
<b>BANANA #EU55371F</b>	
Persistence and degradability	Not established.
<b>12.3. Bioaccumulative potential</b>	
<b>BANANA #EU55371F</b>	
Bioaccumulative potential	Not established.
<b>Isoamyl acetate (123-92-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.7 (at 35 °C)
<b>Benzyl alcohol (100-51-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.05
<b>Allyl caproate (123-68-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.191 (at 20 °C (at pH 5))

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<b>Terpinyl acetate (80-26-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.4 (at 30 °C (at pH 7)
<b>Benzyl acetate (140-11-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.96 (at 25 °C (at pH 7)
<b>Benzyl salicylate (118-58-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	4
<b>Dimethylbenzyl carbinyl acetate(DMBCA) (151-05-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.64 (at 25 °C (at pH >6-<7)
<b>Citral (5392-40-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)
<b>Undecavertol (81782-77-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.9 (at 30 °C (at pH 7)
<b>Allyl cyclohexylpropionate (2705-87-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	4.28 (at 20 °C (at pH 5.3)
<b>Isobutyl acetate (110-19-0)</b>	
BCF - Fish [1]	(no significant bioconcentration)
Partition coefficient n-octanol/water (Log Pow)	2.3 (at 25 °C (at pH 7)
<b>Eugenol (97-53-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.83 (at 30 °C (at pH 5.5)
<b>Heliotropine (120-57-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.2 (at 35 °C)

### 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.  
Ecology - waste materials : Avoid release to the environment.

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HP Code	: HP3 - "Flammable:" – flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; – flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; – flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; – flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; – water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; – other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment
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### 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>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 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

##### 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)	Isoamyl acetate ; Lemon oil ; Orange oil ; Isobutyl acetate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	BANANA #EU55371F ; Benzyl alcohol ; Allyl caproate ; Lemon oil ; Orange oil ; Benzyl salicylate ; Citral ; Allyl cyclohexylpropionate ; Isobutyl acetate ; Hexyl cinnamic aldehyde ; Eugenol	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)	BANANA #EU55371F ; Allyl caproate ; Lemon oil ; Orange oil ; Terpinyl acetate ; Benzyl acetate ; Benzyl salicylate ; Dimethylbenzyl carbonyl acetate(DMBCA) ; Undecavertol ; Allyl cyclohexylpropionate ; Hexyl cinnamic aldehyde	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.	Isoamyl acetate ; Lemon oil ; Orange oil ; Isobutyl acetate	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

###### REACH Annex XIV (Authorisation List)

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

###### REACH Candidate List (SVHC)

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

###### PIC Regulation (Prior Informed Consent)

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

###### POP Regulation (Persistent Organic Pollutants)

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

###### Ozone Regulation (1005/2009)

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

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

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

###### Drug Precursors Regulation (273/2004)

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

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## Safety Data Sheet

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

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Piperonal		120-57-0	2932 93 00	Category 1		Annex I

### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

Storage class (LGK, TRGS 510) : LGK 10 - 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 2A, LGK 5.1A, LGK 6.2, LGK 7.

Joint storage with restrictions permitted for : LGK 4.1A, LGK 4.2, LGK 4.3, LGK 5.1B, LGK 5.1C, LGK 5.2.

Joint storage permitted for : LGK 2B, LGK 3, LGK 4.1B, 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.

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of 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 : Lemon oil ,Orange oil are listed

SZW-lijst van mutagene stoffen : Lemon oil ,Orange oil 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

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

#### Switzerland

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

### 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
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

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Full text of H- and EUH-statements:	
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
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
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.
Repr. 2	Reproductive toxicity, Category 2
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, Narcosis

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.