

# Strawberry Kiwi

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Issue date: 12/15/2020

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Strawberry Kiwi  
UFI : CHVG-2197-300V-UHN5  
Product code :  
Type of product : Perfumes, Fragrances  
Product group : Finished Good

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use  
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

Kandara Oils Ltd  
Unit 11, Agecroft Enterprise Park, Shearer Way,  
Manchester, M27 8WA +447786556114  
[kandaraoils@gmail.com](mailto:kandaraoils@gmail.com) - [www.kandaraoils.co.uk](http://www.kandaraoils.co.uk)

#### 1.4. Emergency telephone number

Emergency number : +44 77865 56114

### SECTION 2: Hazards identification

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

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

Acute toxicity (oral) Category 4 H302  
Skin sensitization, Category 1 H317  
Hazardous to the aquatic environment - Chronic Hazard Category 2 H411  
Full text of H statements : see section 16

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

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

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) :

Warning

Contains :

Melonal; Liffarome; Heliotropine crystals; 2-Hydroxybenzoic acid, benzyl ester; Aldehyde C-16; Benzyl benzoate

Hazard statements (CLP) :

H302 - Harmful if swallowed.  
H317 - May cause an allergic skin reaction.  
H411 - Toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Benzyl benzoate	(CAS-No.) 120-51-4 (EC-No.) 204-402-9 (EC Index-No.) 607-085-00-9 (REACH-no) 01-2119976371-33	22.5 – 45	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Aldehyde C-16	(CAS-No.) 77-83-8 (EC-No.) 201-061-8 (REACH-no) 01-2119967770-28	13.35 – 26.7	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Aldehyde C-14	(CAS-No.) 104-67-6 (EC-No.) 203-225-4 (REACH-no) 01-2119959333-34	1.75 – 3.5	Aquatic Chronic 3, H412
Veltol plus crystals	(CAS-No.) 4940-11-8 (EC-No.) 225-582-5	1.4 – 2.8	Acute Tox. 4 (Oral), H302
Ethyl isovalerate	(CAS-No.) 108-64-5 (EC-No.) 203-602-3	1.2 – 2.4	Flam. Liq. 3, H226 Skin Irrit. 2, H315
Ethyl vanillin crystals	(CAS-No.) 121-32-4 (EC-No.) 204-464-7 (REACH-no) 01-211958961-24	0.5 – 1	Eye Irrit. 2, H319
2-Hydroxybenzoic acid, benzyl ester	(CAS-No.) 118-58-1 (EC-No.) 204-262-9 (REACH-no) 01-2119969442-31	0.25 – 0.5	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Heliotropine crystals	(CAS-No.) 120-57-0 (EC-No.) 204-409-7 (REACH-no) 01-2119983608-21	0.15 – 0.3	Skin Sens. 1B, H317
Melonal	(CAS-No.) 106-72-9 (EC-No.) 203-427-2	0.1 – 0.2	Skin Sens. 1B, H317
Liffarome	(CAS-No.) 67633-96-9 (EC-No.) 266-797-4	0.1 – 0.2	Skin Sens. 1B, H317
Propionic acid substance with a Community workplace exposure limit	(CAS-No.) 79-09-4 (EC-No.) 201-176-3 (EC Index-No.) 607-089-00-0	0.05 – 0.1	Flam. Liq. 3, H226 Skin Corr. 1B, H314 STOT SE 3, H335

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
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-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: 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 eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

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

Symptoms/effects after skin contact	: May cause an allergic skin reaction.
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### 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	: Water spray. Dry powder. Foam. Carbon dioxide.
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### 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

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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## 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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
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#### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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### 6.2. Environmental precautions

Avoid release to the environment.

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

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### 6.4. Reference to other sections

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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.
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.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep cool.
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### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Propionic acid (79-09-4)	
<b>EU - Occupational Exposure Limits</b>	
IOELV TWA (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
IOELV TWA (ppm)	10 ppm
IOELV STEL (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
IOELV STEL (ppm)	20 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK Daily average value (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
MAK Daily average value (ppm)	10 ppm
MAK Short time value [mg/m <sup>3</sup> ]	62 mg/m <sup>3</sup>
MAK Short time value [ppm]	20 ppm
<b>Belgium - Occupational Exposure Limits</b>	
Limit value [mg/m <sup>3</sup> ]	31 mg/m <sup>3</sup>
Limit value [ppm]	10 ppm
Short time value [mg/m <sup>3</sup> ]	62 mg/m <sup>3</sup>
Short time value [ppm]	20 ppm
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
OEL TWA (ppm)	10 ppm
OEL STEL (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
OEL STEL (ppm)	20 ppm
<b>Croatia - Occupational Exposure Limits</b>	
GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
GVI (granična vrijednost izloženosti) (ppm)	10 ppm

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<b>Propionic acid (79-09-4)</b>	
KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	20 ppm
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
OEL TWA (ppm)	10 ppm
OEL STEL (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
OEL STEL (ppm)	20 ppm
<b>Czech Republic - Occupational Exposure Limits</b>	
Exposure limits (PEL) (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
Grænseværdi (8 timer) (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
Grænseværdi (8 timer) (ppm)	10 ppm
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup>
OEL TWA (ppm)	10 ppm
OEL STEL (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
OEL STEL (ppm)	20 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP-arvo (8h) (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
HTP-arvo (8h) (ppm)	10 ppm
HTP-arvo (15 min)	61 mg/m <sup>3</sup>
HTP-arvo (15 min) (ppm)	20 ppm
<b>France - Occupational Exposure Limits</b>	
VME [mg/m <sup>3</sup> ]	31 mg/m <sup>3</sup> (indicative limit)
VME [ppm]	10 ppm (indicative limit)
VLE [mg/m <sup>3</sup> ]	62 mg/m <sup>3</sup> (indicative limit)
VLE [ppm]	20 ppm (indicative limit)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Occupational exposure limit value (mg/m <sup>3</sup> )	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)
Occupational exposure limit value (ppm)	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
<b>Gibraltar - Occupational Exposure Limits</b>	
Eight hours mg/m <sup>3</sup>	31 mg/m <sup>3</sup>
Eight hours ppm	10 ppm
Short-term mg/m <sup>3</sup>	62 mg/m <sup>3</sup>
Short-term ppm	20 ppm
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup>
OEL TWA (ppm)	10 ppm

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<b>Propionic acid (79-09-4)</b>	
OEL STEL (mg/m <sup>3</sup> )	60 mg/m <sup>3</sup>
OEL STEL (ppm)	20 ppm
<b>Hungary - Occupational Exposure Limits</b>	
Exposure Limit Value	31 mg/m <sup>3</sup>
CK-érték	62 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	10 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	20 ppm
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
OEL TWA (ppm)	10 ppm
OEL STEL (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
OEL STEL (ppm)	20 ppm
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
OEL TWA (ppm)	10 ppm
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
IPRV (ppm)	10 ppm
TPRV (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
TPRV (ppm)	20 ppm
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
OEL TWA (ppm)	10 ppm
OEL STEL (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
OEL STEL (ppm)	20 ppm
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
OEL TWA (ppm)	10 ppm
OEL STEL (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
OEL STEL (ppm)	20 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
<b>Poland - Occupational Exposure Limits</b>	
NDS (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup>
NDSCh (mg/m <sup>3</sup> )	45 mg/m <sup>3</sup>

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<b>Propionic acid (79-09-4)</b>	
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup> (indicative limit value)
OEL TWA (ppm)	10 ppm (indicative limit value)
OEL STEL (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup> (indicative limit value)
OEL STEL (ppm)	20 ppm (indicative limit value)
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
OEL TWA (ppm)	10 ppm
OEL STEL (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
OEL STEL (ppm)	20 ppm
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (priemerná) (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
NPHV (priemerná) (ppm)	10 ppm
NPHV (Hraničná) (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
OEL TWA (ppm)	10 ppm
OEL STEL (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
OEL STEL (ppm)	20 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup> (indicative limit value)
VLA-ED (ppm)	10 ppm (indicative limit value)
VLA-EC (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
VLA-EC (ppm)	20 ppm
<b>Sweden - Occupational Exposure Limits</b>	
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup>
nivågränsvärde (NVG) (ppm)	10 ppm
kortidsvärde (KTV) (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
kortidsvärde (KTV) (ppm)	20 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
WEL TWA (ppm)	10 ppm
WEL STEL (mg/m <sup>3</sup> )	46 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	15 ppm
<b>Norway - Occupational Exposure Limits</b>	
TWA (AN) (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup>
TWA (AN) (ppm)	10 ppm
TWA (Korttidsverdi) (mg/m <sup>3</sup> )	45 mg/m <sup>3</sup> (value calculated)
TWA (Korttidsverdi) (ppm)	15 ppm (value calculated)

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#### Switzerland - Occupational Exposure Limits

MAK (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup>
MAK (ppm)	10 ppm
KZGW (mg/m <sup>3</sup> )	60 mg/m <sup>3</sup>
KZGW (ppm)	20 ppm

#### Turkey - Occupational Exposure Limits

OEL TWA (mg/m <sup>3</sup> )	31 mg/m <sup>3</sup>
OEL TWA (ppm)	10 ppm
OEL STEL (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
OEL STEL (ppm)	20 ppm

#### USA - ACGIH - Occupational Exposure Limits

ACGIH TWA (ppm)	10 ppm
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## 8.2. Exposure controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):



### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Color	: light yellow. amber.
Odor	: characteristic.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: Not applicable



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Freezing point	: No data available
Boiling point	: No data available
Flash point	: 81.1 °C (closed cup) ASTM D7094
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.06
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

### 9.2. Other information

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

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

#### Strawberry Kiwi #EU16930F

ATE CLP (oral)	1081.844 mg/kg body weight
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#### Propionic acid (79-09-4)

LD50 oral	351 mg/kg
LD50 oral	3455 mg/kg body weight
LD50 dermal	496 mg/kg

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LD50 dermal	3235 mg/kg body weight
LC50 Inhalation - [ppm]	4650 ppm (Exposure time: 8 h)

### Melonal (106-72-9)

LD50 oral	> 5 g/kg
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### Heliotropine crystals (120-57-0)

LD50 oral	2700 mg/kg
LD50 oral	2700 mg/kg body weight

### 2-Hydroxybenzoic acid, benzyl ester (118-58-1)

LD50 oral	2227 mg/kg
LD50 oral	2200 mg/kg body weight
LD50 dermal	> 5000 mg/kg

### Ethyl vanillin crystals (121-32-4)

LD50 oral	1590 mg/kg
LD50 oral	3000 mg/kg body weight

### Veltol plus crystals (4940-11-8)

LD50 oral	1150 mg/kg
LD50 oral	1200 mg/kg body weight

### Aldehyde C-14 (104-67-6)

LD50 oral	18500 mg/kg
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### Aldehyde C-16 (77-83-8)

LD50 oral	5470 mg/kg
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### Benzyl benzoate (120-51-4)

LD50 oral	500 mg/kg
LD50 oral	1500 mg/kg body weight
LD50 dermal	4000 mg/kg
LD50 dermal	4000 mg/kg body weight

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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### 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.

#### Propionic acid (79-09-4)

LC50 fish 1	> 1 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 fish 2	73 – 99.7 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 72h algae 1	45.8 mg/l (Species: Desmodesmus subspicatus)
EC50 96h algae (1)	43 mg/l (Species: Desmodesmus subspicatus)

#### Heliotropine crystals (120-57-0)

LC50 fish 1	2.5 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static])
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#### 2-Hydroxybenzoic acid, benzyl ester (118-58-1)

LC50 fish 1	1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
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#### Ethyl vanillin crystals (121-32-4)

LC50 fish 1	81.4 – 94.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
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#### Veltol plus crystals (4940-11-8)

LC50 fish 1	> 85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
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#### Aldehyde C-14 (104-67-6)

LC50 fish 1	569 mg/l 96 h
EC50 Daphnia 1	5.85 mg/l 48 h
EC50 other aquatic organisms 1	5.94 mg/l 72 h

#### Aldehyde C-16 (77-83-8)

LC50 fish 1	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
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#### Benzyl benzoate (120-51-4)

LC50 fish 1	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
NOEC (chronic)	0.168 mg/l

#### 12.2. Persistence and degradability

#### Benzyl benzoate (120-51-4)

Persistence and degradability	May cause long-term adverse effects in the environment.
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#### 12.3. Bioaccumulative potential

#### Propionic acid (79-09-4)

Partition coefficient n-octanol/water (Log Pow)	0.25 – 0.33
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### Benzyl benzoate (120-51-4)

Partition coefficient n-octanol/water (Log Pow)	4
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR)	: UN 3082
UN-No. (IMDG)	: UN 3082
UN-No. (IATA)	: UN 3082
UN-No. (ADN)	: Not regulated
UN-No. (RID)	: Not regulated

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
Transport document description (ADR)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl Benzoate), 9, III, (-)
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl Benzoate), 9, III, MARINE POLLUTANT
Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Benzyl Benzoate), 9, III

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 9  
Hazard labels (ADR) : 9



#### IMDG

Transport hazard class(es) (IMDG) : 9  
Hazard labels (IMDG) : 9

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### IATA

Transport hazard class(es) (IATA) : 9

Hazard labels (IATA) : 9



### ADN

Transport hazard class(es) (ADN) : Not regulated

### RID

Transport hazard class(es) (RID) : Not regulated

## 14.4. Packing group

Packing group (ADR) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III  
Packing group (ADN) : Not regulated  
Packing group (RID) : Not regulated

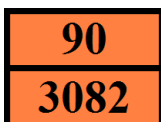
## 14.5. Environmental hazards

Dangerous for the environment : Yes  
Marine pollutant : Yes  
Other information : No supplementary information available

## 14.6. Special precautions for user

### Overland transport

Classification code (ADR) : M6  
Special provision (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  
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 : •3Z

### Transport by sea

Special provision (IMDG) : 274, 335, 969  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : LP01, P001

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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 provision (IATA)	: A97, A158, A197
ERG code (IATA)	: 9L

### Inland waterway transport

Not regulated

### Rail transport

Not regulated

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
Reference code	Applicable
3(a)	Propionic acid ; Ethyl isovalerate
3(b)	Strawberry Kiwi ; Propionic acid ; Melonal ; Liffarome ; 2-Hydroxybenzoic acid, benzyl ester ; Ethyl isovalerate ; Aldehyde C-16 ; Benzyl benzoate
3(c)	Strawberry Kiwi ; 2-Hydroxybenzoic acid, benzyl ester ; Aldehyde C-14 ; Aldehyde C-16 ; Benzyl benzoate
40.	Propionic acid ; Ethyl isovalerate

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance(s) subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

##### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

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

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

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : Liffarome is listed

SZW-lijst van mutagene stoffen : Liffarome is listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Vruchtbaarheid

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed
<b>Denmark</b>	
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

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

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Full text of H- and EUH-phrases:	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1B	Skin sensitization, Category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

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.