



# Blueberry Muffin #TCDL-CFRA-BOWL-NBLM

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Issue date: 3/22/2018 Revision date: 2/15/2021 Supersedes version of: 3/22/2018 Version: 2.0

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

#### 1.1. Product identifier

Product form	: Mixture
Product name	: Blueberry Muffin #TCDL-CFRA-BOWL-NBLM
UFI	: TEMC-033D-K006-JKA6
Product code	: <b>TCDL-CFRA-BOWL-NBLM</b>
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
Industrial/Professional use spec	: 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

The Cosy Owl  
20-28 Albert Road,  
Braintree,  
Essex CM7 3JQ  
Tel: +44 1376 560 348  
[enquiries@cosyowl.com](mailto:enquiries@cosyowl.com) – [www.cosyowl.com](http://www.cosyowl.com)  
Company registration number: 07738645

#### 1.4. Emergency telephone number

Emergency number: +44 1376 560 348

### 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
Serious eye damage/eye irritation, Category 2	H319
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. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

GHS09

Signal word (CLP)

: Warning

Contains

: Benzyl benzoate; Linalool; Cinnamic aldehyde; Heliotropine crystals; Damascone Beta; Vertenex; acetyl propionyl

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Hazard statements (CLP)	: H302 - Harmful if swallowed. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

### 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	59.25 – 79.25	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Vanillin	(CAS-No.) 121-33-5 (EC-No.) 204-465-2 (REACH-no) 01-2119516040-60	5.25 – 10.5	Eye Irrit. 2, H319
Veltol plus crystals	(CAS-No.) 4940-11-8 (EC-No.) 225-582-5	1.225 – 2.45	Acute Tox. 4 (Oral), H302
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2 (REACH-no) 01-2119474016-42	1.2 – 2.4	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Cinnamic aldehyde	(CAS-No.) 104-55-2 (EC-No.) 203-213-9 (REACH-no) 01-2119935242-45	0.525 – 1.05	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Heliotropine crystals	(CAS-No.) 120-57-0 (EC-No.) 204-409-7 (REACH-no) 01-2119983608-21	0.1 – 0.2	Skin Sens. 1B, H317
Damascone Beta	(CAS-No.) 23726-92-3 (EC-No.) 245-843-7	0.075 – 0.15	Skin Sens. 1B, H317
Vertenex	(CAS-No.) 32210-23-4 (EC-No.) 250-954-9 (REACH-no) 01-2119976286-24	0.075 – 0.15	Skin Sens. 1B, H317
acetyl propionyl	(CAS-No.) 600-14-6 (EC-No.) 209-984-8	0.05 – 0.1	Flam. Liq. 2, H225 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373

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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 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. 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.
Symptoms/effects after eye contact	: Eye irritation.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: 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.

### 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. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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

Storage conditions : Store in a well-ventilated place. Keep cool.  
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

acetyl propionyl (600-14-6)	
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	0.083 mg/m <sup>3</sup>
AGW (OEL TWA) [2]	0.02 ppm
Chemical category	skin notation, Skin sensitization
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	0.083 mg/m <sup>3</sup>
OEL TWA [ppm]	0.02 ppm
OEL STEL	0.083 mg/m <sup>3</sup>
OEL STEL [ppm]	0.02 ppm
Chemical category	Potential for cutaneous absorption
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA) [1]	0.08 mg/m <sup>3</sup>
MAK (OEL TWA) [2]	0.02 ppm

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acetyl propionyl (600-14-6)	
KZGW (OEL STEL)	0.16 mg/m <sup>3</sup>
KZGW (OEL STEL) [ppm]	0.04 ppm
Chemical category	Sensitizer, skin notation

Propionic acid (79-09-4)	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	31 mg/m <sup>3</sup>
IOEL TWA [ppm]	10 ppm
IOEL STEL	62 mg/m <sup>3</sup>
IOEL STEL [ppm]	20 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	31 mg/m <sup>3</sup>
MAK (OEL TWA) [ppm]	10 ppm
MAK (OEL STEL)	62 mg/m <sup>3</sup>
MAK (OEL STEL) [ppm]	20 ppm
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	31 mg/m <sup>3</sup>
OEL TWA [ppm]	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
OEL STEL [ppm]	20 ppm
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	31 mg/m <sup>3</sup>
OEL TWA [ppm]	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
OEL STEL [ppm]	20 ppm
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA) [1]	31 mg/m <sup>3</sup>
GVI (OEL TWA) [2]	10 ppm
KGVI (OEL STEL)	62 mg/m <sup>3</sup>
KGVI (OEL STEL) [ppm]	20 ppm
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	31 mg/m <sup>3</sup>
OEL TWA [ppm]	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
OEL STEL [ppm]	20 ppm
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	30 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	31 mg/m <sup>3</sup>
OEL TWA [2]	10 ppm

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<b>Propionic acid (79-09-4)</b>	
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	30 mg/m <sup>3</sup>
OEL TWA [ppm]	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
OEL STEL [ppm]	20 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA) [1]	31 mg/m <sup>3</sup>
HTP (OEL TWA) [2]	10 ppm
HTP (OEL STEL)	61 mg/m <sup>3</sup>
HTP (OEL STEL) [ppm]	20 ppm
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	31 mg/m <sup>3</sup> (indicative limit)
VME (OEL TWA) [ppm]	10 ppm (indicative limit)
VLE (OEL C/STEL)	62 mg/m <sup>3</sup> (indicative limit)
VLE (OEL C/STEL) [ppm]	20 ppm (indicative limit)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	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)
AGW (OEL TWA) [2]	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>	
OEL TWA	31 mg/m <sup>3</sup>
OEL TWA [ppm]	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
OEL STEL [ppm]	20 ppm
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	30 mg/m <sup>3</sup>
OEL TWA [ppm]	10 ppm
OEL STEL	60 mg/m <sup>3</sup>
OEL STEL [ppm]	20 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	31 mg/m <sup>3</sup>
CK (OEL STEL)	62 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [1]	31 mg/m <sup>3</sup>
OEL TWA [2]	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
OEL STEL [ppm]	20 ppm
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	31 mg/m <sup>3</sup>
OEL TWA [ppm]	10 ppm

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<b>Propionic acid (79-09-4)</b>	
OEL STEL	62 mg/m <sup>3</sup>
OEL STEL [ppm]	20 ppm
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	31 mg/m <sup>3</sup>
OEL TWA [ppm]	10 ppm
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	31 mg/m <sup>3</sup>
IPRV (OEL TWA) [ppm]	10 ppm
TPRV (OEL STEL)	62 mg/m <sup>3</sup>
TPRV (OEL STEL) [ppm]	20 ppm
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	31 mg/m <sup>3</sup>
OEL TWA [ppm]	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
OEL STEL [ppm]	20 ppm
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	31 mg/m <sup>3</sup>
OEL TWA [ppm]	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
OEL STEL [ppm]	20 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
MAC-TGG (OEL TWA)	31 mg/m <sup>3</sup>
MAC-15 (OEL STEL)	62 mg/m <sup>3</sup>
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	30 mg/m <sup>3</sup>
NDSch (OEL STEL)	45 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	31 mg/m <sup>3</sup> (indicative limit value)
OEL TWA [ppm]	10 ppm (indicative limit value)
OEL STEL	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	31 mg/m <sup>3</sup>
OEL TWA [ppm]	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
OEL STEL [ppm]	20 ppm
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA) [1]	31 mg/m <sup>3</sup>
NPHV (OEL TWA) [2]	10 ppm
NPHV (OEL C)	62 mg/m <sup>3</sup>

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<b>Propionic acid (79-09-4)</b>	
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	31 mg/m <sup>3</sup>
OEL TWA [ppm]	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
OEL STEL [ppm]	20 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	31 mg/m <sup>3</sup> (indicative limit value)
VLA-ED (OEL TWA) [2]	10 ppm (indicative limit value)
VLA-EC (OEL STEL)	62 mg/m <sup>3</sup>
VLA-EC (OEL STEL) [ppm]	20 ppm
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	30 mg/m <sup>3</sup>
NGV (OEL TWA) [ppm]	10 ppm
KTV (OEL STEL)	62 mg/m <sup>3</sup>
KTV (OEL STEL) [ppm]	20 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	31 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	10 ppm
WEL STEL (OEL STEL)	46 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	15 ppm
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA) [1]	30 mg/m <sup>3</sup>
Grenseverdi (OEL TWA) [2]	10 ppm
Korttidsverdi (OEL STEL)	45 mg/m <sup>3</sup> (value calculated)
Korttidsverdi (OEL STEL) [ppm]	20 ppm (value calculated)
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA) [1]	30 mg/m <sup>3</sup>
MAK (OEL TWA) [2]	10 ppm
KZGW (OEL STEL)	60 mg/m <sup>3</sup>
KZGW (OEL STEL) [ppm]	20 ppm
<b>Turkey - Occupational Exposure Limits</b>	
OEL TWA	31 mg/m <sup>3</sup>
OEL TWA [ppm]	10 ppm
OEL STEL	62 mg/m <sup>3</sup>
OEL STEL [ppm]	20 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA [ppm]	10 ppm

### 8.1.2. Recommended monitoring procedures

No additional information available



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### 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 symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
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
Freezing point	: No data available

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Boiling point	: No data available
Flash point	: > 93.33 °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	: ≈ 1.1
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

### Blueberry Muffin #TCDL-CFRA-BOWL-NBLM

ATE CLP (oral)	597.814 mg/kg body weight
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### Benzyl benzoate (120-51-4)

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

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LD50 dermal	4000 mg/kg body weight
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### Vanillin (121-33-5)

LD50 dermal rabbit	> 5010 mg/kg
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### Veltol plus crystals (4940-11-8)

LD50 oral rat	1150 mg/kg
LD50 oral	1200 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg

### Linalool (78-70-6)

LD50 oral	2790 mg/kg body weight
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### Cinnamic aldehyde (104-55-2)

LD50 oral rat	2220 mg/kg
LD50 oral	2500 mg/kg body weight
LD50 dermal rabbit	1260 mg/kg
LD50 dermal	1100 mg/kg body weight

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

LD50 oral rat	2700 mg/kg
LD50 oral	2700 mg/kg body weight
LD50 dermal rat	> 5000 mg/kg

### Damascone Beta (23726-92-3)

LD50 oral	2920 mg/kg body weight
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### Vertenex (32210-23-4)

LD50 oral rat	5 g/kg
LD50 oral	3370 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg

### acetyl propionyl (600-14-6)

LD50 oral rat	3 g/kg
LD50 oral	3000 mg/kg body weight
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	2500 mg/kg body weight

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

LD50 oral rat	351 mg/kg
LD50 oral	3455 mg/kg body weight
LD50 dermal rat	3235 mg/kg
LD50 dermal	3235 mg/kg body weight

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LC50 Inhalation - Rat [ppm]	4650 ppm (Exposure time: 8 h)
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Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
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

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

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure	: Not classified
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### acetyl propionyl (600-14-6)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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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.

### 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

### Vanillin (121-33-5)

LC50 - Fish [1]	53 – 61.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	88 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
NOEC (acute)	10000 mg/kg (Exposure time: 42 Days - Species: Eisenia foetida [soil dry weight])

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

LC50 - Fish [1]	> 85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
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### Linalool (78-70-6)

EC50 96h - Algae [1]	88.3 mg/l (Species: Desmodesmus subspicatus)
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### Heliotropine crystals (120-57-0)

LC50 - Fish [1]	2.5 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static])
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### Vertenex (32210-23-4)

LC50 - Fish [1]	8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
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### 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)

## 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

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

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

### Vanillin (121-33-5)

Partition coefficient n-octanol/water (Log Pow)	1.23 (at 22 °C)
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### Cinnamic aldehyde (104-55-2)

Partition coefficient n-octanol/water (Log Pow)	2.22 (at 18 °C)
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### Propionic acid (79-09-4)

Partition coefficient n-octanol/water (Log Pow)	0.25 – 0.33
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## 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 / IMDG / IATA / ADN / RID

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### 14.1 UN number

UN-No. (ADR)	: UN 3082
UN-No. (IMDG)	: UN 3082
UN-No. (IATA)	: UN 3082
UN-No. (ADN)	: UN 3082
UN-No. (RID)	: UN 3082

### 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)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (RID)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
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
Transport document description (ADN)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
Transport document description (RID)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 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



#### IATA

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



#### ADN

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



#### RID

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



### 14.4. Packing group

Packing group (ADR) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III  
Packing group (ADN) : III  
Packing group (RID) : III

### 14.5. Environmental hazards

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

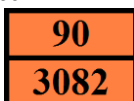
### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : M6  
Special provision (ADR) : 274, 335, 375, 601  
Limited quantities (ADR) : 5l  
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  
Packing instructions (IMDG) : P001, LP01  
Packing provisions (IMDG) : PP1  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP2, 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

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CAO packing instructions (IATA) : 964  
CAO max net quantity (IATA) : 450L  
Special provision (IATA) : A97, A158, A197  
ERG code (IATA) : 9L

### Inland waterway transport

Classification code (ADN) : M6  
Special provision (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 provision (RID) : 274, 335, 375, 601  
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  
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31

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

## 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 on
3(a)	acetyl propionyl
3(b)	Blueberry Muffin #TCDL-CFRA-BOWL-NBLM ; Benzyl benzoate ; Linalool ; Cinnamic aldehyde ; Damascone Beta ; Vertenex ; acetyl propionyl ; Propionic acid
3(c)	Blueberry Muffin #TCDL-CFRA-BOWL-NBLM ; Benzyl benzoate ; Damascone Beta
40.	acetyl propionyl

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

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)



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### Netherlands

SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige 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

Full text of H- and EUH-phrases:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

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H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

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.