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## Oil of ylang-ylang, artificial

article number: 3343 date of compilation: 2021-09-13 Version: GHS 2.0 en Revision: 2022-06-01

Replaces version of: 2021-09-13

Version: (GHS 1)

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

#### **Product identifier** 1.1

Identification of the substance Oil of ylang-ylang, artificial

Article number 3343

Alternative name(s) Oleum Anonae

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes

(household).

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

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone: +49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment

sheet:

sicherheit@carlroth.de e-mail (competent person):

#### 1.4 **Emergency telephone number**

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 West- mead, NSW	131126	

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification acc. to GHS

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	4	Flam. Liq. 4	H227
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.45	Skin sensitisation	1	Skin Sens. 1	H317
3.10	Aspiration hazard	1	Asp. Tox. 1	H304

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For full text of abbreviations: see SECTION 16

#### The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

#### 2.2 Label elements

#### Labelling

Signal word Danger

#### **Pictograms**

GHS05, GHS07, GHS08





#### **Hazard statements**

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P280 Wear protective gloves

#### Precautionary statements - response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P331 Do NOT induce vomiting

P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher for extinction

**Hazardous ingredients for labelling:** β-Caryophyllene, Geraniol, Salicylic acid benzyl

ester, Linalool, Farnesol, Geranyl acetate

## 2.3 Other hazards

This material is combustible, but will not ignite readily.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

not relevant (mixture)

#### 3.2 Mixtures

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## **Description of the mixture**

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Benzoic acid benzyl ester	CAS No 120-51-4	10 - < 25	Acute Tox. 4 / H302	<u>(1)</u>	
β-Caryophyllene	CAS No 87-44-5	10 - < 25	Skin Sens. 1 / H317 Asp. Tox. 1 / H304	<b>(!)</b>	
Salicylic acid benzyl es- ter	CAS No 118-58-1	5-<10	Eye Irrit. 2A / H319 Skin Sens. 1 / H317	<u>(1)</u>	
Geraniol	CAS No 106-24-1	5-<10	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317		
Linalool	CAS No 78-70-6	5-<10	Flam. Liq. 4 / H227 Skin Irrit. 2 / H315 Eye Irrit. 2A / H319 Skin Sens. 1B / H317	<u>(1)</u>	
Germacrene D	CAS No 37839-63-7	1-<5	Asp. Tox. 1 / H304	<b>\$</b>	
Benzyl alcohol	CAS No 100-51-6	1-<5	Acute Tox. 4 / H302 Acute Tox. 4 / H332	<u>(1)</u>	
α-Humulene	CAS No 6753-98-6	1-<5	Flam. Liq. 4 / H227		
Geranyl acetate	CAS No 105-87-3	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317	<u>(1)</u>	
4-methylanisole	CAS No 104-93-8	<1	Flam. Liq. 4 / H227 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Repr. 2 / H361fd	<b>(!)</b>	
Farnesol	CAS No 4602-84-0	<1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317	<u>(1)</u>	

For full text of abbreviations: see SECTION 16

# **SECTION 4: First aid measures**

## 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

## **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

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#### Following skin contact

Rinse skin with water/shower. In case of skin reactions, consult a physician.

#### Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### **Following ingestion**

Call a physician immediately. Observe aspiration hazard if vomiting occurs.

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

Aspiration hazard, Vomiting, Risk of blindness, Risk of serious damage to eyes, Irritation, Allergic reactions

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

none

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours may form explosive mixtures with air.

#### **Hazardous combustion products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

#### **SECTION 6: Accidental release measures**

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



#### For non-emergency personnel

Do not breathe vapour/spray. Avoid contact with skin and eyes. Avoidance of ignition sources.

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#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Danger of explosion.

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

#### Advice on how to contain a spill

Covering of drains.

#### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Provision of sufficient ventilation.

#### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

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

Keep container tightly closed.

#### **Incompatible substances or mixtures**

Observe hints for combined storage.

#### Consideration of other advice:

#### **Ventilation requirements**

Use local and general ventilation.

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

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# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

#### **National limit values**

## Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

Relevant DN	ELs of com	ponents of	the mixture
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Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
Benzoic acid benzyl ester	120-51-4	DNEL	5.1 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects
Benzoic acid benzyl ester	120-51-4	DNEL	102 mg/m³	human, inhalat- ory	worker (industry)	acute - systemic effects
Benzoic acid benzyl ester	120-51-4	DNEL	2.6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Salicylic acid benzyl ester	118-58-1	DNEL	7.8 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects
Salicylic acid benzyl ester	118-58-1	DNEL	2.21 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	2.8 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	16.5 mg/ m³	human, inhalat- ory	worker (industry)	acute - systemic effects
Linalool	78-70-6	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Linalool	78-70-6	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Geraniol	106-24-1	DNEL	161.6 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	12.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Geraniol	106-24-1	DNEL	11,800 µg/ cm²	human, dermal	worker (industry)	chronic - local ef- fects
Farnesol	4602-84-0	DNEL	1.85 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Farnesol	4602-84-0	DNEL	1.32 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Geranyl acetate	105-87-3	DNEL	62.59 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Geranyl acetate	105-87-3	DNEL	35.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
4-methylanisole	104-93-8	DNEL	1.64 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
4-methylanisole	104-93-8	DNEL	7.05 mg/ m³	human, inhalat- ory	worker (industry)	acute - systemic effects
4-methylanisole	104-93-8	DNEL	0.467 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time	
4-methylanisole	104-93-8	DNEL	2 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects	

Relevant PNECs of components of the mixture								
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time		
Benzoic acid benzyl ester	120-51-4	PNEC	0.017 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)		
Benzoic acid benzyl ester	120-51-4	PNEC	0.002 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)		
Benzoic acid benzyl ester	120-51-4	PNEC	100 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)		
Benzoic acid benzyl ester	120-51-4	PNEC	10.66 <sup>mg</sup> /	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)		
Benzoic acid benzyl ester	120-51-4	PNEC	1.07 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)		
Benzoic acid benzyl ester	120-51-4	PNEC	2.12 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)		
Salicylic acid benzyl ester	118-58-1	PNEC	0.001 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)		
Salicylic acid benzyl ester	118-58-1	PNEC	0 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)		
Salicylic acid benzyl ester	118-58-1	PNEC	10 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)		
Salicylic acid benzyl ester	118-58-1	PNEC	0.583 <sup>mg</sup> / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)		
Salicylic acid benzyl ester	118-58-1	PNEC	0.058 <sup>mg</sup> / kg	aquatic organ- isms	marine sediment	short-term (single instance)		
Salicylic acid benzyl ester	118-58-1	PNEC	1.41 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)		
Linalool	78-70-6	PNEC	0.2 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)		
Linalool	78-70-6	PNEC	0.02 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)		
Linalool	78-70-6	PNEC	10 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)		
Linalool	78-70-6	PNEC	2.22 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)		
Linalool	78-70-6	PNEC	0.222 <sup>mg</sup> / kg	aquatic organ- isms	marine sediment	short-term (single instance)		
Linalool	78-70-6	PNEC	0.327 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)		
Geraniol	106-24-1	PNEC	0.011 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)		

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#### Relevant PNECs of components of the mixture Name of sub-**CAS No** End-**Threshol Organism Environmental Exposure time** stance point d level compartment 0.001 <sup>mg</sup>/<sub>I</sub> Geraniol 106-24-1 **PNEC** aquatic organmarine water short-term (single isms instance) $0.7 \frac{mg}{I}$ Geraniol 106-24-1 **PNEC** aquatic organsewage treatment short-term (single isms plant (STP) instance) 0.115 mg/ Geraniol 106-24-1 **PNEC** freshwater sedishort-term (single aquatic organment instance) isms kg Geraniol 106-24-1 **PNEC** 0.011 <sup>mg</sup>/ aquatic organmarine sediment short-term (single instance) isms kg 0.017 mg/ Geraniol 106-24-1 **PNEC** terrestrial organshort-term (single soil instance) isms kg Farnesol 4602-84-0 **PNEC** $0.568 \, \mu g/_1$ aquatic organfreshwater short-term (single instance) isms Farnesol 4602-84-0 **PNEC** $0.057 \, ^{\mu g}/_{l}$ aquatic organmarine water short-term (single isms instance) 10 mg/ı 4602-84-0 **PNEC** aquatic organ-Farnesol sewage treatment short-term (single isms plant (STP) instance) $87.19 \, ^{\mu g}/_{kg}$ Farnesol 4602-84-0 **PNEC** aquatic organfreshwater sedishort-term (single instance) isms ment $8.72 \, ^{\mu g}/_{kg}$ Farnesol 4602-84-0 **PNEC** aquatic organmarine sediment short-term (single isms instance) $17.07 \, ^{\mu g}/_{kg}$ Farnesol 4602-84-0 **PNEC** short-term (single terrestrial organsoil isms instance) Geranyl acetate 105-87-3 **PNEC** $3.72 \, ^{\mu g}/_{l}$ aquatic organfreshwater short-term (single instance) isms $0.372 \,^{\mu g}/_{l}$ Geranyl acetate 105-87-3 **PNEC** short-term (single aquatic organmarine water isms instance) Geranyl acetate 105-87-3 **PNEC** 8 <sup>mg</sup>/<sub>I</sub> aquatic organshort-term (single sewage treatment isms plant (STP) instance) 0.442 mg/ Geranyl acetate 105-87-3 PNFC aquatic organfreshwater sedishort-term (single isms ment instance) kg 0.044 mg/ Geranyl acetate **PNEC** short-term (single 105-87-3 aquatic organmarine sediment instance) isms kg 0.086 mg/ Geranyl acetate 105-87-3 **PNEC** terrestrial organsoil short-term (single isms instance) kg 27 <sup>µg</sup>/<sub>I</sub> 4-methylanisole 104-93-8 **PNEC** aquatic organfreshwater short-term (single isms instance) $2.7 \, ^{\mu g}/_{I}$ 4-methylanisole 104-93-8 **PNEC** short-term (single aquatic organmarine water instance) isms $0.3 \frac{\text{mg}}{\text{l}}$ 4-methylanisole 104-93-8 **PNEC** aquatic organsewage treatment short-term (single isms plant (STP) instance) 1.17 <sup>mg</sup>/<sub>kg</sub> 4-methylanisole 104-93-8 **PNEC** aquatic organfreshwater sedishort-term (single isms ment instance) 4-methylanisole 104-93-8 **PNEC** 0.117 mg/ aquatic organmarine sediment short-term (single isms instance) kg

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#### Relevant PNECs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
4-methylanisole	104-93-8	PNEC	0.219 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)

#### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

#### **Eye/face protection**





Use safety goggle with side protection.

#### Skin protection





#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### type of material

NBR (Nitrile rubber)

#### material thickness

0,4 mm

#### breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### Respiratory protection





Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

#### **Environmental exposure controls**

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Keep away from drains, surface and ground water.

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

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

Physical state liquid

Colour clear - yellowish brown

Odour characteristic

Melting point/freezing point not determined

Boiling point or initial boiling point and boiling not determined

range

Flammability flammable liquid in accordance with GHS criteria

Lower and upper explosion limit not determined

Flash point 78 °C

Auto-ignition temperature not determined

Decomposition temperature not relevant
pH (value) not determined

Kinematic viscosity not determined

Solubility(ies)

Water solubility (practically insoluble)

Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure not determined

Density and/or relative density

Density  $0.96 \, {}^{9}/_{\mathrm{cm}^3}$  at 20  ${}^{\circ}\mathrm{C}$ 

Relative vapour density information on this property is not available

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard There is no additional information.

classes:

Other safety characteristics:

Refractive index 1.5 – 1.52

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## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

#### If heated

Risk of ignition. Vapours may form explosive mixtures with air.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5 Incompatible materials

There is no additional information.

#### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to GHS

#### **Acute toxicity**

Shall not be classified as acutely toxic.

#### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Benzyl alcohol	100-51-6	oral	1,580 <sup>mg</sup> / <sub>kg</sub>
Benzyl alcohol	100-51-6	inhalation: vapour	11 <sup>mg</sup> / <sub>l</sub> /4h
Benzyl alcohol	100-51-6	inhalation: dust/mist	>4.178 <sup>mg</sup> / <sub>l</sub> /4h
4-methylanisole	104-93-8	oral	1,920 <sup>mg</sup> / <sub>kg</sub>

#### Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Benzoic acid benzyl ester	120-51-4	oral	LD50	>2,000 <sup>mg</sup> / <sub>kg</sub>	rat
β-Caryophyllene	87-44-5	oral	LD50	>5,000 <sup>mg</sup> / <sub>kg</sub>	mouse

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Acute toxicity of components of the mixture							
Name of substance	CAS No	Exposure route	Endpoint	Value	Species		
Salicylic acid benzyl ester	118-58-1	oral	LD50	3,339 <sup>mg</sup> / <sub>kg</sub>	rat		
Salicylic acid benzyl ester	118-58-1	dermal	LD50	>2,000 <sup>mg</sup> / <sub>kg</sub>	rabbit		
Linalool	78-70-6	oral	LD50	2,790 <sup>mg</sup> / <sub>kg</sub>	rat		
Linalool	78-70-6	dermal	LD50	5,610 <sup>mg</sup> / <sub>kg</sub>	rabbit		
Geraniol	106-24-1	oral	LD50	3,600 <sup>mg</sup> / <sub>kg</sub>	rat		
Geraniol	106-24-1	dermal	LD50	>5,000 <sup>mg</sup> / <sub>kg</sub>	rabbit		
Benzyl alcohol	100-51-6	oral	LD50	1,580 <sup>mg</sup> / <sub>kg</sub>	mouse		
Benzyl alcohol	100-51-6	inhalation: dust/mist	LC50	>4,178 <sup>mg</sup> / <sub>m³</sub> / 4h	rat		
Farnesol	4602-84-0	oral	LD50	>5,000 <sup>mg</sup> / <sub>kg</sub>	rat		
Farnesol	4602-84-0	dermal	LD50	>15,000 <sup>mg</sup> / <sub>kg</sub>	rat		
Geranyl acetate	105-87-3	oral	LD50	6,330 <sup>mg</sup> / <sub>kg</sub>	rat		
4-methylanisole	104-93-8	oral	LD50	1,920 <sup>mg</sup> / <sub>kg</sub>	rat		
4-methylanisole	104-93-8	inhalation: va-	LC50	>6.1 <sup>mg</sup> / <sub>I</sub> /4h	rat		

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

## **Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

## Carcinogenicity

Shall not be classified as carcinogenic.

## **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

## Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

## Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

May be fatal if swallowed and enters airways.

#### Symptoms related to the physical, chemical and toxicological characteristics

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#### If swallowed

vomiting, aspiration hazard

## • If in eyes

Causes serious eye damage, risk of blindness

#### • If inhaled

Data are not available.

#### • If on skin

causes skin irritation, May produce an allergic reaction, pruritis, localised redness

## Other information

none

#### 11.2 Endocrine disrupting properties

None of the ingredients are listed.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

## Aquatic toxicity (acute) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Benzoic acid benzyl ester	120-51-4	LC50	0.29 <sup>mg</sup> / <sub>l</sub>	striped brill	96 h
Benzoic acid benzyl ester	120-51-4	EC50	3.09 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Benzoic acid benzyl ester	120-51-4	ErC50	0.475 <sup>mg</sup> / <sub>l</sub>	algae	72 h
β-Caryophyllene	87-44-5	EC50	>0.17 <sup>mg</sup> / <sub>l</sub>	daphnia magna	48 h
β-Caryophyllene	87-44-5	ErC50	>0.033 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Salicylic acid benzyl es- ter	118-58-1	LC50	1.03 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Salicylic acid benzyl es- ter	118-58-1	EC50	1.16 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Salicylic acid benzyl es- ter	118-58-1	ErC50	1.29 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Linalool	78-70-6	LC50	27.8 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Linalool	78-70-6	EC50	59 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Linalool	78-70-6	ErC50	156.7 <sup>mg</sup> / <sub>l</sub>	algae	96 h
Geraniol	106-24-1	LC50	22 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Geraniol	106-24-1	EC50	10.8 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Geraniol	106-24-1	ErC50	13.1 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Benzyl alcohol	100-51-6	LC50	460 <sup>mg</sup> / <sub>l</sub>	fish	96 h

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## Aquatic toxicity (acute) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Benzyl alcohol	100-51-6	EC50	230 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Benzyl alcohol	100-51-6	ErC50	770 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Farnesol	4602-84-0	EC50	2.2 <sup>mg</sup> / <sub>l</sub>	daphnia magna	48 h
Farnesol	4602-84-0	LC50	1.8 <sup>mg</sup> / <sub>l</sub>	rainbow trout (Onco- rhynchus mykiss)	96 h
Geranyl acetate	105-87-3	LC50	68.12 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Geranyl acetate	105-87-3	EC50	14.1 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Geranyl acetate	105-87-3	ErC50	3.72 <sup>mg</sup> / <sub>l</sub>	algae	72 h
4-methylanisole	104-93-8	LC50	68.2 <sup>mg</sup> / <sub>l</sub>	fish	96 h
4-methylanisole	104-93-8	EC50	27 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
4-methylanisole	104-93-8	ErC50	>500 <sup>mg</sup> / <sub>l</sub>	algae	72 h

## Aquatic toxicity (chronic) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Benzoic acid benzyl ester	120-51-4	LC50	11 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	24 h
Benzoic acid benzyl ester	120-51-4	EC50	>10,000 <sup>mg</sup> / <sub>l</sub>	microorganisms	3 h
Linalool	78-70-6	EC50	>100 <sup>mg</sup> / <sub>l</sub>	microorganisms	30 min
Geraniol	106-24-1	EC50	70 <sup>mg</sup> / <sub>l</sub>	microorganisms	30 min
Benzyl alcohol	100-51-6	LC50	770 <sup>mg</sup> / <sub>l</sub>	fish	1 h
Benzyl alcohol	100-51-6	EC50	66 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	21 d

## **Biodegradation**

Data are not available.

## 12.2 Process of degradability

## Degradability of components of the mixture

	·					
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Benzoic acid benzyl ester	120-51-4	biotic/abiotic	94 %	28 d		
Benzoic acid benzyl ester	120-51-4	oxygen deple- tion	94 %	28 d		ECHA
β-Caryophyl- lene	87-44-5	oxygen deple- tion	10 %	28 d		ECHA
Salicylic acid benzyl ester	118-58-1	oxygen deple- tion	93 %	28 d		ECHA

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## Degradability of components of the mixture

Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Linalool	78-70-6	oxygen deple- tion	40.9 %	5 d		ECHA
Geraniol	106-24-1	DOC removal	90 – 100 %	3 d		ECHA
Benzyl alcohol	100-51-6	oxygen deple- tion	92 – 96 %	14 d		ECHA
Benzyl alcohol	100-51-6	DOC removal	95 %	21 d		ECHA
Geranyl acet- ate	105-87-3	oxygen deple- tion	>70 %	28 d		ECHA
4-methylan- isole	104-93-8	oxygen deple- tion	79 %	28 d		ECHA

## 12.3 Bioaccumulative potential

Data are not available.

## Bioaccumulative potential of components of the mixture

<u> </u>	<del>-</del>			
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Benzoic acid benzyl ester	120-51-4	193.4	3.97 (25 °C)	
β-Caryophyllene	87-44-5		6.23 (pH value: 7, 25 °C)	
Salicylic acid benzyl ester	118-58-1		4 (35 °C)	
Linalool	78-70-6		2.9 (pH value: 7, 20 °C)	
Geraniol	106-24-1		2.6 (25 °C)	
Benzyl alcohol	100-51-6		1 (20 °C)	
Farnesol	4602-84-0		≥4.6 - ≤4.78 (22.3 °C)	
Geranyl acetate	105-87-3		4.04	
4-methylanisole	104-93-8		2.8 (pH value: 7, 35 °C)	

## 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

## 12.6 Endocrine disrupting properties

None of the ingredients are listed.

## 12.7 Other adverse effects

Data are not available.

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## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

#### Relevant provisions relating to waste(Basel Convention)

#### Properties of waste which render it hazardous

**H11** Toxic (Delayed or chronic)

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## **SECTION 14: Transport information**

14.1 UN number	14.1	l	J٢	۱r	าน	m	be	ı
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UN RTDG UN 3082
IMDG-Code UN 3082
ICAO-TI UN 3082

## 14.2 UN proper shipping name

UN RTDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

IMDG-Code ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

ICAO-TI Environmentally hazardous substance, liquid,

n.o.s.

Technical name (hazardous ingredients)

Benzoic acid benzyl ester, Farnesol

14.3 Transport hazard class(es)

UN RTDG 9
IMDG-Code 9
ICAO-TI 9

14.4 Packing group

UN RTDG III
IMDG-Code III
ICAO-TI III

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**14.5 Environmental hazards** hazardous to the aquatic environment

Environmentally hazardous substance (aquatic Benzoic acid benzyl ester, Farnesol

environment):

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Transport informationNational regulationsAdditional information(UN RTDG)

UN number 3082

Class 9

Environmental hazards Yes

Hazardous to the aquatic environment

Packing group III

Danger label(s) 9

Fish and tree

**Special provisions (SP)** 274, 331, 335, 375

**UN RTDG** 

Excepted quantities (EQ) E1

UN RTDG

Limited quantities (LQ) 5 L

**UN RTDG** 

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

Particulars in the shipper's declaration UN3082, ENVIRONMENTALLY HAZARDOUS SUB-

STANCE, LIQUID, N.O.S., (contains: Benzoic acid

benzyl ester, Farnesol), 9, III

Marine pollutant yes (hazardous to the aquatic environment), (Benzoic acid

benzyl ester)

Danger label(s) 9, "Fish and tree"





Special provisions (SP) 274, 335, 969

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L

EmS F-A, S-F

Stowage category A

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#### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Environmentally hazardous substance, liquid,

n.o.s.

UN3082, Environmentally hazardous substance, Particulars in the shipper's declaration

liquid, n.o.s., (contains: Benzoic acid benzyl ester, Farnesol), 9, III

**Environmental hazards YES** (hazardous to the aquatic environment)

9, "Fish and tree" Danger label(s)

Special provisions (SP) A97, A158, A197, A215

Excepted quantities (EQ) E1

30 kg Limited quantities (LQ)

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture There is no additional information.

#### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### **National inventories**

Country	Inventory	Status
AU	AIIC	not all ingredients are listed
CA	DSL	not all ingredients are listed
CA	NDSL	not all ingredients are listed
CN	IECSC	not all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
PH	PICCS	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	not all ingredients are listed

Legend

AIIC Australian Inventory of Industrial Chemicals CICR Chemical Inventory and Control Regulation

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Legend

CSCL-ENCS

ECSI IECSC

List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances
Inventory of Existing and New Chemical Substances (ISHA-ENCS)
Korea Existing Chemicals Inventory INSQ ISHA-ENCS KECI

Korea Existing Chemicals Inventory Non-domestic Substances List (NDSL) NDSL NZIoC

New Zealand Inventory of Chemicals
Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH registered substances

REACH Reg.

Taiwan Chemical Substance Inventory TCSI TSCA **Toxic Substance Control Act** 

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

## Indication of changes (revised safety data sheet)

Alignment to regulation: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2	Hazardous ingredients for labelling: β-Caryophyllene, Geraniol, Linalool, Salicylic acid benzyl ester, Farnesol, Geranyl acetate	Hazardous ingredients for labelling: β-Caryophyllene, Geraniol, Salicylic acid benzyl ester, Linalool, Farnesol, Geranyl acetate	yes

## **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye

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Abbr.	Descriptions of used abbreviations
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
Repr.	Reproductive toxicity
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative

#### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### **Classification procedure**

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

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Code	Text
H227	Combustible liquid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.

## Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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