

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Duftöl 10ml Zimt Orange =&lt; 125 mL

**Further trade names**

This MSDS covers the following products:

-91190 Duftöl 10ml Zimt Orange

-50547 Duftöl 10ml Zimt Orange

-46131 Duftöl 10ml Zimt Orange

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Perfumes, fragrances

**Uses advised against**

Any non-intended use.

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

Company name: Promed GmbH  
Cosmetic Products,  
Lindenweg 11, 82490  
Farchant, Germany

|                         |   |  |  |
|-------------------------|---|--|--|
| Responsible Department: | Dr. Gans-Eichler<br>Chemieberatung GmbH<br>Raesfeldstr. 22<br>D-48149 Münster | e-mail:<br>Tel.:<br>www.tge-consult.de | info@tge-consult.de<br>+49(0)251/394868-69 |
|-------------------------|---|--|--|

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 3

Aspiration hazard: Asp. Tox. 1

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1A

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

dipentene

cinnamaldehyde

eugenol

linalool

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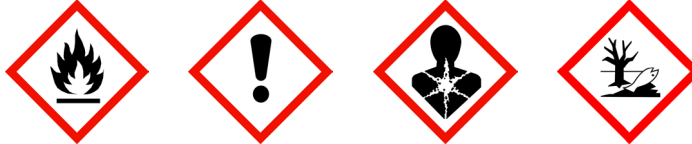
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cinnamyl alcohol  
 citral  
 citronellol  
 cineole  
 Sabinen  
 alpha pinene

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

H317 May cause an allergic skin reaction.  
 H304 May be fatal if swallowed and enters airways.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P405 Store locked up.  
 P501 Dispose of contents/container to local/regional/national/international regulations.

**2.3. Other hazards**

In use, may form flammable/explosive vapour-air mixture.  
 The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**Hazardous components**

| CAS No   | Chemical name   |              |          | Quantity    |
|----------|---|--------------|----------|-------------|
|          | EC No   | Index No     | REACH No |             |
|          | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |              |          |             |
| 138-86-3 | dipentene   |              |          | 55 - < 60 % |
|          | 205-341-0   | 601-029-00-7 |          |             |
|          | Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226<br>H315 H317 H304 H400 H410 |              |          |             |
| 104-55-2 | cinnamaldehyde  |              |          | 30 - < 35 % |
|          | 203-213-9   |              |          |             |
|          | Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1A; H312 H315 H319 H317   |              |          |             |
| 97-53-0  | eugenol   |              |          | 1 - < 5 %   |
|          | 202-589-1   |              |          |             |
|          | Eye Irrit. 2, Skin Sens. 1B; H319 H317  |              |          |             |
| 78-70-6  | linalool  |              |          | 1 - < 5 %   |
|          | 201-134-4   |              |          |             |
|          | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317  |              |          |             |
| 115-95-7 | linalyl acetate   |              |          | 1 - < 5 %   |
|          | 204-116-4   |              |          |             |
|          | Skin Irrit. 2, Eye Irrit. 2; H315 H319  |              |          |             |
| 104-54-1 | cinnamyl alcohol  |              |          | 1 - < 5 %   |

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|-----------|---|--------------|--|-----------|
|           | 203-212-3   |              |  |           |
|           | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317  |              |  |           |
| 120-51-4  | benzyl benzoate   |              |  | 1 - < 5 % |
|           | 204-402-9   | 607-085-00-9 |  |           |
|           | Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 2; H302 H400 H411                                      |              |  |           |
| 5392-40-5 | citral  |              |  | 1 - < 5 % |
|           | 226-394-6   | 605-019-00-3 |  |           |
|           | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317   |              |  |           |
| 106-22-9  | citronellol   |              |  | 1 - < 5 % |
|           | 203-375-0   |              |  |           |
|           | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317   |              |  |           |
| 470-82-6  | cineole   |              |  | 1 - < 5 % |
|           | 207-431-5   |              |  |           |
|           | Flam. Liq. 3, Skin Sens. 1B; H226 H317  |              |  |           |
| 3387-41-5 | Sabinen   |              |  | 1 - < 5 % |
|           | 222-212-4   |              |  |           |
|           | Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1; H226 H315 H317 H304                           |              |  |           |
| 7785-26-4 | alpha pinene  |              |  | < 1 %     |
|           | 232-077-3   |              |  |           |
|           | Flam. Liq. 3, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H317 H304 H400 H410 |              |  |           |

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

#### Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.

#### After inhalation

Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

Take off immediately all contaminated clothing. Wash with plenty of water. In case of skin irritation, seek medical treatment.

#### After contact with eyes

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.

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

### 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**

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam.  
In case of major fire and large quantities: Atomized water.

**Unsuitable extinguishing media**

High power water jet.

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

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO<sub>2</sub>).

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate affected area.

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear personal protection equipment. (See section 8.)

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area.

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation as well as local exhaust at critical locations.

Wear suitable protective clothing. (See section 8.)

**Advice on protection against fire and explosion**

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

**Further information on handling**

General protection and hygiene measures: See section 8.

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

**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.  
Ensure adequate ventilation of the storage area.  
Make sure spills can be contained (e.g. sump pallets or kerbed areas).

**Advice on storage compatibility**

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

**Further information on storage conditions**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.  
Protect against: UV-radiation/sunlight. heat. moisture. frost.  
storage temperature: 15-25°C

**7.3. Specific end use(s)**

refer to chapter 1.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls****Appropriate engineering controls**

Professional:  
Provide adequate ventilation as well as local exhaust at critical locations.

**Protective and hygiene measures**

Professional:  
The usual precautions for handling chemicals should be considered.  
Keep away from food, drink and animal feedingstuffs.  
Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing.

**Eye/face protection**

Professional:  
Wear safety glasses; chemical goggles (if splashing is possible). DIN EN 166

**Hand protection**

Professional:  
In case of prolonged or frequently repeated skin contact: Wear suitable gloves. (DIN EN 374)  
Suitable material: Butyl rubber.  
Thickness of glove material: 0,5 mm  
Breakthrough time  $\geq$  480 min. penetration time (maximum wearing period): ~ 120 min. (estimated)  
In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.  
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.

**Skin protection**

Professional:

Wear suitable protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

**Respiratory protection**

Professional:

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Generation/formation of aerosols exceeding exposure limit values

Insufficient ventilation.

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: A/P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

**Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

**SECTION 9: Physical and chemical properties**

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

|                 |                |                |
|-----------------|----------------|----------------|
| Physical state: | liquid         |                |
| Colour:         | orange         |                |
| Odour:          | characteristic |                |
| pH-Value:       |                | not determined |

**Changes in the physical state**

|  |  |                |
|--|--|----------------|
| Melting point:                           |  | not applicable |
| Initial boiling point and boiling range: |  | not determined |
| Flash point:                             |  | 57 °C          |

**Explosive properties**

not explosive. Vapours may form explosive mixtures with air.

|                            |  |                |
|----------------------------|--|----------------|
| Lower explosion limits:    |  | not determined |
| Upper explosion limits:    |  | not determined |
| Ignition temperature:      |  | not determined |
| Decomposition temperature: |  | not determined |

**Oxidizing properties**

none.

|                                |  |                         |
|--------------------------------|--|-------------------------|
| Vapour pressure:<br>(at 20 °C) |  | not determined          |
| Density (at 20 °C):            |  | 0,926 g/cm <sup>3</sup> |
| Water solubility:              |  | not miscible            |

**Solubility in other solvents**

not determined

|                                      |  |                |
|--------------------------------------|--|----------------|
| Viscosity / dynamic:<br>(at 20 °C)   |  | not determined |
| Viscosity / kinematic:<br>(at 20 °C) |  | not determined |
| Vapour density:                      |  | not determined |
| Evaporation rate:                    |  | not determined |

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Solvent separation test: not determined

Solvent content: not determined

### **9.2. Other information**

Solid content: not determined

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

### **10.1. Reactivity**

No information available.

### **10.2. Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

### **10.3. Possibility of hazardous reactions**

No information available.

### **10.4. Conditions to avoid**

Protect against: UV-radiation/sunlight. heat. moisture.

In use may form flammable/explosive vapour-air mixture.

Heating causes rise in pressure with risk of bursting.

### **10.5. Incompatible materials**

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid. strong alkalis.

### **10.6. Hazardous decomposition products**

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO<sub>2</sub>).

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicokinetics, metabolism and distribution**

No data available.

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

The product has not been tested.

| CAS No   | Chemical name           |               |         |        |              |
|----------|-------------------------|---------------|---------|--------|--------------|
|          | Exposure route          | Dose          | Species | Source | Method       |
| 138-86-3 | dipentene               |               |         |        |              |
|          | oral                    | LD50<br>mg/kg | 5300    | Rat    | RTECS        |
| 104-55-2 | cinnamaldehyde          |               |         |        |              |
|          | oral                    | LD50<br>mg/kg | 2200    | Rat    | ECHA Dossier |
|          | dermal                  | LD50<br>mg/kg | 1260    | Rabbit | ECHA Dossier |
| 97-53-0  | eugenol                 |               |         |        |              |
|          | oral                    | LD50<br>mg/kg | >2000   | Rat    | ECHA Dossier |
|          | inhalative (4 h) vapour | LC50          | 5 mg/l  | Rat    | ECHA Dossier |
| 78-70-6  | linalool                |               |         |        |              |
|          | oral                    | LD50<br>mg/kg | 2200    | Mouse. | ECHA Dossier |
|          | dermal                  | LD50<br>mg/kg | >5000   | Rabbit | ECHA Dossier |

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|-----------|-----------------|---------------|---------|---------|--------------|--|
| 120-51-4  | benzyl benzoate |               |         |         |              |  |
|           | oral            | LD50<br>mg/kg | (>2000) | Rat.    | ECHA Dossier |  |
|           | dermal          | LD50<br>mg/kg | >2000   | Rabbit. | ECHA Dossier |  |
| 5392-40-5 | citral          |               |         |         |              |  |
|           | oral            | LD50<br>mg/kg | 6800    | Rat.    | ECHA Dossier |  |
|           | dermal          | LD50<br>mg/kg | >2000   | Rat.    | ECHA Dossier |  |
| 106-22-9  | citronellol     |               |         |         |              |  |
|           | oral            | LD50<br>mg/kg | 3450    | Rat.    | ECHA Dossier |  |
|           | dermal          | LD50<br>mg/kg | 2650    | Rabbit  | ECHA Dossier |  |

### Irritation and corrosivity

Based on available data, the classification criteria are not met.

### Sensitising effects

May cause an allergic skin reaction. (dipentene; cinnamaldehyde; eugenol; linalool; cinnamyl alcohol; citral; citronellol; cineole; Sabinen; alpha pinene)

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

May be fatal if swallowed and enters airways. (dipentene; Sabinen; alpha pinene)

### Specific effects in experiment on an animal

No data available.

### Further information

Solvent:

Symptoms: Depression of the central nervous system. Liver and kidney damage. drowsiness. vomiting.

Nausea. Dizziness. unconsciousness. Impaired consciousness. Intoxication. erythema (redness)

## SECTION 12: Ecological information

### 12.1. Toxicity

The product has not been tested.

| CAS No   | Chemical name           |               |           |         |                     |              |
|----------|-------------------------|---------------|-----------|---------|---------------------|--------------|
|          | Aquatic toxicity        | Dose          | [h]   [d] | Species | Source              | Method       |
| 104-55-2 | cinnamaldehyde          |               |           |         |                     |              |
|          | Acute fish toxicity     | LC50<br>mg/l  | (>3,5)    | 96 h    | Poecilia reticulata | ECHA Dossier |
|          | Acute algae toxicity    | ErC50<br>mg/l | (16,09)   | 72 h    | Chlorella vulgaris  | ECHA Dossier |
|          | Acute bacteria toxicity | ((71 mg/l))   |           | 3 h     | Activated sludge    | ECHA Dossier |
| 97-53-0  | eugenol                 |               |           |         |                     |              |
|          | Acute fish toxicity     | LC50          | 13 mg/l   | 96 h    | Danio rerio         | ECHA Dossier |



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|           | Acute algae toxicity     | ErC50      | 24 mg/l  | 72 h | Desmodesmus subspicatus             | ECHA Dossier |  |
|           | Acute crustacea toxicity | EC50 mg/l  | 1,13     | 48 h | Daphnia magna                       | ECHA Dossier |  |
|           | Fish toxicity            | NOEC       | 10 mg/l  | 4 d  | Danio rerio                         | ECHA Dossier |  |
|           | Algae toxicity           | NOEC       | 23 mg/l  | 3 d  | Desmodesmus subspicatus             | ECHA Dossier |  |
| 78-70-6   | linalool                 |            |          |      |                                     |              |  |
|           | Acute fish toxicity      | LC50 mg/l  | 27,8     | 96 h | Oncorhynchus mykiss (Rainbow trout) | ECHA Dossier |  |
|           | Acute algae toxicity     | ErC50 mg/l | 88,3     | 96 h | Desmodesmus subspicatus             | ECHA Dossier |  |
|           | Acute crustacea toxicity | EC50       | 59 mg/l  | 48 h | Daphnia magna                       | ECHA Dossier |  |
| 120-51-4  | benzyl benzoate          |            |          |      |                                     |              |  |
|           | Acute algae toxicity     | ErC50 mg/l | (0,475)  | 72 h | Pseudokirchneriella subcapitata     | ECHA Dossier |  |
| 5392-40-5 | citral                   |            |          |      |                                     |              |  |
|           | Acute fish toxicity      | LC50 mg/l  | (4,6)    | 96 h | Leuciscus idus                      | ECHA Dossier |  |
|           | Acute algae toxicity     | ErC50 mg/l | 103,8    | 72 h | Desmodesmus subspicatus             | ECHA Dossier |  |
|           | Acute crustacea toxicity | EC50 mg/l  | (6,8)    | 48 h | Daphnia magna                       | ECHA Dossier |  |
| 106-22-9  | citronellol              |            |          |      |                                     |              |  |
|           | Acute fish toxicity      | LC50 mg/l  | 14,66    | 96 h | Leuciscus idus (golden orfe)        | ECHA Dossier |  |
|           | Acute algae toxicity     | ErC50      | 2,4 mg/l | 72 h | Scenedesmus subspicatus             | ECHA Dossier |  |
|           | Acute crustacea toxicity | EC50 mg/l  | 17,5     | 48 h | Daphnia magna                       | ECHA Dossier |  |
| 470-82-6  | cineole                  |            |          |      |                                     |              |  |
|           | Acute fish toxicity      | LC50       | 57 mg/l  | 96 h | Oncorhynchus mykiss (Rainbow trout) | ECHA Dossier |  |
|           | Acute algae toxicity     | ErC50      | >74 mg/l | 72 h | Pseudokirchneriella subcapitata     | ECHA Dossier |  |
|           | Acute crustacea toxicity | EC50 mg/l  | >100     | 48 h | Daphnia magna                       | ECHA Dossier |  |
| 7785-26-4 | alpha pinene             |            |          |      |                                     |              |  |
|           | Acute fish toxicity      | LC50 mg/l  | 0,303    | 96 h | Danio rerio                         | ECHA Dossier |  |
|           | Acute crustacea toxicity | EC50 mg/l  | 0,475    | 48 h | Daphnia magna                       | ECHA Dossier |  |

#### 12.2. Persistence and degradability

The product has not been tested.

| CAS No   | Chemical name                                       |        |   |              |
|----------|---|--------|---|--------------|
|          | Method  | Value  | d | Source       |
|          | Evaluation  |        |   |              |
| 104-55-2 | cinnamaldehyde                                      |        |   |              |
|          | OECD 301D/ EEC 92/69/V, C.4-E                       | 24,98% | 5 | ECHA Dossier |
|          | Readily biodegradable (according to OECD criteria). |        |   |              |
| 97-53-0  | eugenol   |        |   |              |

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|           | EU Method C.4-E   | 82%   | 28 | ECHA         |
|           | Readily biodegradable (according to OECD criteria).           |       |    |              |
| 78-70-6   | linalool  |       |    |              |
|           | OECD 301D / EEC 92/69 annex V, C.4-E                          | 64,2% | 28 | ECHA Dossier |
|           | Easily biodegradable (concerning to the criteria of the OECD) |       |    |              |
| 120-51-4  | benzyl benzoate   |       |    |              |
|           | EU Method C.4-D   | 94%   | 28 | ECHA Dossier |
|           | Easily biodegradable (concerning to the criteria of the OECD) |       |    |              |
| 5392-40-5 | citral  |       |    |              |
|           | EU Method C.4-D   | 90%   | 28 | ECHA Dossier |
|           | Product is biodegradable.                                     |       |    |              |
| 106-22-9  | citronellol   |       |    |              |
|           | EU Directive 79/831/EEC Annex V, part C                       | 90 %  | 28 | ECHA Dossier |
|           | Product is biodegradable.                                     |       |    |              |
| 470-82-6  | cineole   |       |    |              |
|           | OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D               | 82%   | 28 | ECHA Dossier |
|           | Easily biodegradable (concerning to the criteria of the OECD) |       |    |              |

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

| CAS No    | Chemical name   | Log Pow |
|-----------|-----------------|---------|
| 138-86-3  | dipentene       | 4,57    |
| 104-55-2  | cinnamaldehyde  | 2,1     |
| 97-53-0   | eugenol         | 1,83    |
| 78-70-6   | linalool        | 2,84    |
| 120-51-4  | benzyl benzoate | 3,97    |
| 5392-40-5 | citral          | 2,76    |
| 106-22-9  | citronellol     | 3,41    |

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

No data available.

### Further information

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to EAKV:

#### Waste disposal number of waste from residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

**Waste disposal number of used product**

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

**Waste disposal number of contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (dipentene, benzyl benzoate)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Classification code: F1  
Special Provisions: 274 601  
Limited quantity: 5 L  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 30  
Tunnel restriction code: D/E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (dipentene, benzyl benzoate)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Classification code: F1  
Special Provisions: 274 601  
Limited quantity: 5 L  
Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (dipentene, benzyl benzoate)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Marine pollutant: YES  
 Special Provisions: 223, 274, 955  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-E, S-E

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (dipentene, benzyl benzoate)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Special Provisions: A3  
 Limited quantity Passenger: 10 L  
 Passenger LQ: Y344  
 Excepted quantity: E1  
 IATA-packing instructions - Passenger: 355  
 IATA-max. quantity - Passenger: 60 L  
 IATA-packing instructions - Cargo: 366  
 IATA-max. quantity - Cargo: 220 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: dipentene, benzyl benzoate

**14.6. Special precautions for user**

See section 8.

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

not relevant.

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulatory information**

2010/75/EU (VOC): 57,07%  
 Information according to 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment  
 Additional information: P5c

**Additional information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].  
 REACH 1907/2006 Appendix XVII, No (mixture): 3

**National regulatory information**

**Duftöl 10ml Zimt Orange =< 125 mL**

Revision date: 09.04.2018

Product code:

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Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 3 - highly water contaminating

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

**SECTION 16: Other information**

**Changes**

Rev. 1.00; Initial release: 06.04.2018

**Abbreviations and acronyms**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route
- CAS Chemical Abstracts Service
- DNEL: Derived No Effect Level
- IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
- LOAEL: Lowest observed adverse effect level
- LOAEC: Lowest observed adverse effect concentration
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- NOAEL: No observed adverse effect level
- NOAEC: No observed adverse effect level
- NTP: National Toxicology Program
- N/A: not applicable
- OSHA: Occupational Safety and Health Administration
- PNEC: predicted no effect concentration
- PBT: Persistent bioaccumulative toxic
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )
- SARA: Superfund Amendments and Reauthorization Act
- SVHC: substance of very high concern
- TRGS Technische Regeln fuerGefahrstoffe
- TSCA: Toxic Substances Control Act
- VOC: Volatile Organic Compounds
- VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe
- WGK: Wassergefaehrdungsklasse

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Flam. Liq. 3; H226      | On basis of test data    |
| Asp. Tox. 1; H304       | Calculation method       |
| Skin Irrit. 2; H315     | Calculation method       |
| Eye Irrit. 2; H319      | Calculation method       |
| Skin Sens. 1A; H317     | Calculation method       |
| Aquatic Acute 1; H400   | Calculation method       |
| Aquatic Chronic 1; H410 | Calculation method       |

**Relevant H and EUH statements (number and full text)**

|      |   |
|------|---|
| H226 | Flammable liquid and vapour.                          |
| H302 | Harmful if swallowed.                                 |
| H304 | May be fatal if swallowed and enters airways.         |
| H312 | Harmful in contact with skin.                         |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H319 | Causes serious eye irritation.                        |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |

**Further Information**

Classification according EC regulation 1272/2008 (CLP): - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*