

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Oil of ylang-ylang , artificial

article number: **3343**
Version: **2.0 en**
Replaces version of: 2021-09-13
Version: (1)

date of compilation: 2021-09-13
Revision: 2022-06-01

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

1.1 Product identifier

| | |
|---------------------------------|--|
| Identification of the substance | Oil of ylang-ylang , artificial |
| Article number | 3343 |
| Registration number (REACH) | not relevant (mixture) |
| 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 sheet: :Department Health, Safety and Environment

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

1.4 Emergency telephone number

| Name | Street | Postal code/city | Telephone | Website |
|--|---------------|------------------|-------------|---|
| National Poisons Information Centre Beaumont Hospital | Beaumont Road | Dublin 9 | 01 809 2166 | https://www.poisons.ie/ |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Hazard class | Cat-egory | Hazard class and category | Hazard statement |
|---------|-----------------------------------|-----------|---------------------------|------------------|
| 3.2 | Skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 3.3 | Serious eye damage/eye irritation | 1 | Eye Dam. 1 | H318 |
| 3.4S | Skin sensitisation | 1 | Skin Sens. 1 | H317 |

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| Section | Hazard class | Cat-egory | Hazard class and category | Hazard statement |
|---------|---|-----------|---------------------------|------------------|
| 3.10 | Aspiration hazard | 1 | Asp. Tox. 1 | H304 |
| 4.1C | Hazardous to the aquatic environment - chronic hazard | 2 | Aquatic Chronic 2 | H411 |

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word

Danger

Pictograms

GHS05, GHS07,
GHS08, GHS09



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
H411 Toxic to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P273 Avoid release to the environment
P280 Wear protective gloves/eye protection

Precautionary statements - response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 Immediately call a doctor
P331 Do NOT induce vomiting

Hazardous ingredients for labelling:

β -Caryophyllene, Geraniol, Salicylic acid benzyl ester, Linalool, Farnesol, Geranyl acetate

Labelling of packages where the contents do not exceed 125 ml

Signal word: **Danger**

Symbol(s)



H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

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P280 Wear protective gloves/eye protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
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.
contains: 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

Description of the mixture

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms | Notes |
|-----------------------------|--|-----------|---|------------|--------|
| Benzoic acid benzyl ester | CAS No 120-51-4 EC No 204-402-9 Index No 607-085-00-9 | 10 – < 25 | Acute Tox. 4 / H302 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411 | | GHS-HC |
| Acetic acid benzyl ester | CAS No 140-11-4 EC No 205-399-7 | 10 – < 25 | Aquatic Chronic 3 / H412 | | |
| β -Caryophyllene | CAS No 87-44-5 EC No 201-746-1 | 10 – < 25 | Skin Sens. 1 / H317 Asp. Tox. 1 / H304 | | |
| Salicylic acid benzyl ester | CAS No 118-58-1 EC No 204-262-9 Index No 607-754-00-5 | 5 – < 10 | Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Aquatic Chronic 3 / H412 | | GHS-HC |
| Geraniol | CAS No 106-24-1 EC No 203-377-1 Index No 603-241-00-5 | 5 – < 10 | Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317 | | GHS-HC |

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| Name of sub-stance | Identifier | Wt% | Classification acc. to GHS | Pictograms | Notes |
|--------------------|--|----------|---|------------|--------|
| Linalool | CAS No 78-70-6 EC No 201-134-4 Index No 603-235-00-2 | 5 - < 10 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 | | GHS-HC |
| Germacrene D | CAS No 37839-63-7 EC No 817-191-9 | 1 - < 5 | Asp. Tox. 1 / H304 | | |
| Benzyl alcohol | CAS No 100-51-6 EC No 202-859-9 Index No 603-057-00-5 | 1 - < 5 | Acute Tox. 4 / H302 Acute Tox. 4 / H332 | | GHS-HC |
| α-Humulene | CAS No 6753-98-6 EC No 229-816-7 | 1 - < 5 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 | | |
| Geranyl acetate | CAS No 105-87-3 EC No 203-341-5 | < 1 | Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412 | | |
| 4-methylanisole | CAS No 104-93-8 EC No 203-253-7 | < 1 | Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Repr. 2 / H361fd | | |
| Farnesol | CAS No 4602-84-0 EC No 225-004-1 | < 1 | Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410 | | |

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

| Name of sub-stance | Identifier | Specific Conc. Limits | M-Factors | ATE | Exposure route |
|---------------------------|--|-----------------------|-----------|-----------|----------------|
| Benzoic acid benzyl ester | CAS No 120-51-4 EC No 204-402-9 Index No 607-085-00-9 | - | - | 500 mg/kg | oral |

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| Name of substance | Identifier | Specific Conc. Limits | M-Factors | ATE | Exposure route |
|-------------------|--|-----------------------|-----------|---|---|
| Benzyl alcohol | CAS No 100-51-6 EC No 202-859-9 Index No 603-057-00-5 | - | - | 1.580 mg/kg 11 mg/l/4h >4,178 mg/l/ 4h | oral inhalation: vapour inhalation: dust/ mist |
| 4-methylanisole | CAS No 104-93-8 EC No 203-253-7 | - | - | 1.920 mg/kg | oral |

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.

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

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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 (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. 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.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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.

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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.

Measures to protect the environment

Avoid release to the environment.

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:

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
|---------|----------------|----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|----------------------|
| IE | benzyl acetate | 140-11-4 | OELV | | 10 | | | | | | S.I. No. 619 of 2001 |

Notation

Ceiling-C
STEL

Ceiling value is a limit value above which exposure should not occur
Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

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| Relevant DNELs of components of the mixture | | | | | | |
|---|-----------|-----------|---------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Benzoic acid benzyl ester | 120-51-4 | DNEL | 5,1 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Benzoic acid benzyl ester | 120-51-4 | DNEL | 102 mg/m ³ | human, inhalatory | 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 |
| Acetic acid benzyl ester | 140-11-4 | DNEL | 9 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Acetic acid benzyl ester | 140-11-4 | DNEL | 2,5 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Salicylic acid benzyl ester | 118-58-1 | DNEL | 7,8 mg/m ³ | human, inhalatory | 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 ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Linalool | 78-70-6 | DNEL | 16,5 mg/m ³ | human, inhalatory | 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/m ³ | human, inhalatory | 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/cm ² | human, dermal | worker (industry) | chronic - local effects |
| Farnesol | 4602-84-0 | DNEL | 1,85 mg/m ³ | human, inhalatory | 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/m ³ | human, inhalatory | 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/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| 4-methylanisole | 104-93-8 | DNEL | 7,05 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| 4-methylanisole | 104-93-8 | DNEL | 0,467 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| 4-methylanisole | 104-93-8 | DNEL | 2 mg/kg bw/day | human, dermal | worker (industry) | acute - systemic effects |

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|---|----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| Benzoic acid benzyl ester | 120-51-4 | PNEC | 0,017 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Benzoic acid benzyl ester | 120-51-4 | PNEC | 0,002 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Benzoic acid benzyl ester | 120-51-4 | PNEC | 100 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Benzoic acid benzyl ester | 120-51-4 | PNEC | 10,66 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Benzoic acid benzyl ester | 120-51-4 | PNEC | 1,07 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Benzoic acid benzyl ester | 120-51-4 | PNEC | 2,12 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Acetic acid benzyl ester | 140-11-4 | PNEC | 0,018 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Acetic acid benzyl ester | 140-11-4 | PNEC | 0,002 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Acetic acid benzyl ester | 140-11-4 | PNEC | 8,55 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Acetic acid benzyl ester | 140-11-4 | PNEC | 0,526 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Acetic acid benzyl ester | 140-11-4 | PNEC | 0,053 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Acetic acid benzyl ester | 140-11-4 | PNEC | 0,094 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Salicylic acid benzyl ester | 118-58-1 | PNEC | 0,001 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Salicylic acid benzyl ester | 118-58-1 | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Salicylic acid benzyl ester | 118-58-1 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Salicylic acid benzyl ester | 118-58-1 | PNEC | 0,583 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Salicylic acid benzyl ester | 118-58-1 | PNEC | 0,058 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Salicylic acid benzyl ester | 118-58-1 | PNEC | 1,41 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Linalool | 78-70-6 | PNEC | 0,2 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Linalool | 78-70-6 | PNEC | 0,02 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Linalool | 78-70-6 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Linalool | 78-70-6 | PNEC | 2,22 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |

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|---|-----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| Linalool | 78-70-6 | PNEC | 0,222 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Linalool | 78-70-6 | PNEC | 0,327 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Geraniol | 106-24-1 | PNEC | 0,011 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Geraniol | 106-24-1 | PNEC | 0,001 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Geraniol | 106-24-1 | PNEC | 0,7 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Geraniol | 106-24-1 | PNEC | 0,115 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Geraniol | 106-24-1 | PNEC | 0,011 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Geraniol | 106-24-1 | PNEC | 0,017 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Farnesol | 4602-84-0 | PNEC | 0,568 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Farnesol | 4602-84-0 | PNEC | 0,057 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Farnesol | 4602-84-0 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Farnesol | 4602-84-0 | PNEC | 87,19 µg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Farnesol | 4602-84-0 | PNEC | 8,72 µg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Farnesol | 4602-84-0 | PNEC | 17,07 µg/kg | terrestrial organisms | soil | short-term (single instance) |
| Geranyl acetate | 105-87-3 | PNEC | 3,72 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Geranyl acetate | 105-87-3 | PNEC | 0,372 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Geranyl acetate | 105-87-3 | PNEC | 8 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Geranyl acetate | 105-87-3 | PNEC | 0,442 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Geranyl acetate | 105-87-3 | PNEC | 0,044 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Geranyl acetate | 105-87-3 | PNEC | 0,086 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| 4-methylanisole | 104-93-8 | PNEC | 27 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| 4-methylanisole | 104-93-8 | PNEC | 2,7 µg/l | aquatic organisms | marine water | short-term (single instance) |

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| Relevant PNECs of components of the mixture | | | | | | |
|---|----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| 4-methylanisole | 104-93-8 | PNEC | 0,3 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| 4-methylanisole | 104-93-8 | PNEC | 1,17 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| 4-methylanisole | 104-93-8 | PNEC | 0,117 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| 4-methylanisole | 104-93-8 | PNEC | 0,219 mg/kg | terrestrial organisms | 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.

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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

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 range | not determined |
| Flammability | this material is combustible, but will not ignite readily |
| 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 |
| <u>Solubility(ies)</u> | |
| Water solubility | (practically insoluble) |
| <u>Partition coefficient</u> | |
| Partition coefficient n-octanol/water (log value): | this information is not available |
| Vapour pressure | not determined |
| <u>Density and/or relative density</u> | |
| Density | 0,96 g/cm ³ at 20 °C |
| Relative vapour density | information on this property is not available |
| Particle characteristics | not relevant (liquid) |

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Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard classes: hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics:

Refractive index 1,5 – 1,52

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

If heated

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

There are no specific conditions known which have to be avoided.

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 hazard classes as defined in Regulation (EC) No 1272/2008

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 according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

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Acute toxicity estimate (ATE) of components of the mixture

| Name of substance | CAS No | Exposure route | ATE |
|---------------------------|----------|-----------------------|----------------|
| Benzoic acid benzyl ester | 120-51-4 | oral | 500 mg/kg |
| Benzyl alcohol | 100-51-6 | oral | 1.580 mg/kg |
| Benzyl alcohol | 100-51-6 | inhalation: vapour | 11 mg/l/4h |
| Benzyl alcohol | 100-51-6 | inhalation: dust/mist | >4,178 mg/l/4h |
| 4-methylanisole | 104-93-8 | oral | 1.920 mg/kg |

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 mg/kg | rat |
| Acetic acid benzyl ester | 140-11-4 | oral | LD50 | >2.000 mg/kg | rat |
| β -Caryophyllene | 87-44-5 | oral | LD50 | >5.000 mg/kg | mouse |
| Salicylic acid benzyl ester | 118-58-1 | oral | LD50 | 3.339 mg/kg | rat |
| Salicylic acid benzyl ester | 118-58-1 | dermal | LD50 | >2.000 mg/kg | rabbit |
| Linalool | 78-70-6 | oral | LD50 | 2.790 mg/kg | rat |
| Linalool | 78-70-6 | dermal | LD50 | 5.610 mg/kg | rabbit |
| Geraniol | 106-24-1 | oral | LD50 | 3.600 mg/kg | rat |
| Geraniol | 106-24-1 | dermal | LD50 | >5.000 mg/kg | rabbit |
| Benzyl alcohol | 100-51-6 | oral | LD50 | 1.580 mg/kg | mouse |
| Benzyl alcohol | 100-51-6 | inhalation: dust/mist | LC50 | >4.178 mg/m ³ /4h | rat |
| Farnesol | 4602-84-0 | oral | LD50 | >5.000 mg/kg | rat |
| Farnesol | 4602-84-0 | dermal | LD50 | >15.000 mg/kg | rat |
| Geranyl acetate | 105-87-3 | oral | LD50 | 6.330 mg/kg | rat |
| 4-methylanisole | 104-93-8 | oral | LD50 | 1.920 mg/kg | rat |
| 4-methylanisole | 104-93-8 | inhalation: vapour | LC50 | >6,1 mg/l/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.

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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

• 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.

11.3 Information on other hazards

There is no additional information.

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 substance | CAS No | Endpoint | Value | Species | Exposure time |
| Benzoic acid benzyl ester | 120-51-4 | LC50 | 0,29 mg/l | striped brill | 96 h |
| Benzoic acid benzyl ester | 120-51-4 | EC50 | 3,09 mg/l | aquatic invertebrates | 48 h |
| Benzoic acid benzyl ester | 120-51-4 | ErC50 | 0,475 mg/l | algae | 72 h |
| Acetic acid benzyl ester | 140-11-4 | LC50 | 4 mg/l | fish | 96 h |

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| Aquatic toxicity (acute) of components of the mixture | | | | | |
|---|-----------|----------|-------------|-------------------------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Acetic acid benzyl ester | 140-11-4 | EC50 | 25 mg/l | aquatic invertebrates | 24 h |
| Acetic acid benzyl ester | 140-11-4 | ErC50 | 110 mg/l | algae | 72 h |
| β -Caryophyllene | 87-44-5 | EC50 | >0,17 mg/l | daphnia magna | 48 h |
| β -Caryophyllene | 87-44-5 | ErC50 | >0,033 mg/l | algae | 72 h |
| Salicylic acid benzyl ester | 118-58-1 | LC50 | 1,03 mg/l | fish | 96 h |
| Salicylic acid benzyl ester | 118-58-1 | EC50 | 1,16 mg/l | aquatic invertebrates | 48 h |
| Salicylic acid benzyl ester | 118-58-1 | ErC50 | 1,29 mg/l | algae | 72 h |
| Linalool | 78-70-6 | LC50 | 27,8 mg/l | fish | 96 h |
| Linalool | 78-70-6 | EC50 | 59 mg/l | aquatic invertebrates | 48 h |
| Linalool | 78-70-6 | ErC50 | 156,7 mg/l | algae | 96 h |
| Geraniol | 106-24-1 | LC50 | 22 mg/l | fish | 96 h |
| Geraniol | 106-24-1 | EC50 | 10,8 mg/l | aquatic invertebrates | 48 h |
| Geraniol | 106-24-1 | ErC50 | 13,1 mg/l | algae | 72 h |
| Benzyl alcohol | 100-51-6 | LC50 | 460 mg/l | fish | 96 h |
| Benzyl alcohol | 100-51-6 | EC50 | 230 mg/l | aquatic invertebrates | 48 h |
| Benzyl alcohol | 100-51-6 | ErC50 | 770 mg/l | algae | 72 h |
| Farnesol | 4602-84-0 | EC50 | 2,2 mg/l | daphnia magna | 48 h |
| Farnesol | 4602-84-0 | LC50 | 1,8 mg/l | rainbow trout (Oncorhynchus mykiss) | 96 h |
| Geranyl acetate | 105-87-3 | LC50 | 68,12 mg/l | fish | 96 h |
| Geranyl acetate | 105-87-3 | EC50 | 14,1 mg/l | aquatic invertebrates | 48 h |
| Geranyl acetate | 105-87-3 | ErC50 | 3,72 mg/l | algae | 72 h |
| 4-methylanisole | 104-93-8 | LC50 | 68,2 mg/l | fish | 96 h |
| 4-methylanisole | 104-93-8 | EC50 | 27 mg/l | aquatic invertebrates | 48 h |
| 4-methylanisole | 104-93-8 | ErC50 | >500 mg/l | algae | 72 h |

| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|---|----------|----------|---------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Benzoic acid benzyl ester | 120-51-4 | LC50 | 11 mg/l | aquatic invertebrates | 24 h |

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| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|---|----------|----------|--------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Benzoic acid benzyl ester | 120-51-4 | EC50 | >10.000 mg/l | microorganisms | 3 h |
| Acetic acid benzyl ester | 140-11-4 | EC50 | 855 mg/l | microorganisms | 3 h |
| Linalool | 78-70-6 | EC50 | >100 mg/l | microorganisms | 30 min |
| Geraniol | 106-24-1 | EC50 | 70 mg/l | microorganisms | 30 min |
| Benzyl alcohol | 100-51-6 | LC50 | 770 mg/l | fish | 1 h |
| Benzyl alcohol | 100-51-6 | EC50 | 66 mg/l | 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 | Degradation rate | Time | Method | Source |
| Benzoic acid benzyl ester | 120-51-4 | biotic/abiotic | 94 % | 28 d | | |
| Benzoic acid benzyl ester | 120-51-4 | oxygen depletion | 94 % | 28 d | | ECHA |
| Acetic acid benzyl ester | 140-11-4 | carbon dioxide generation | 100,9 % | 28 d | | ECHA |
| β -Caryophyllene | 87-44-5 | oxygen depletion | 10 % | 28 d | | ECHA |
| Salicylic acid benzyl ester | 118-58-1 | oxygen depletion | 93 % | 28 d | | ECHA |
| Linalool | 78-70-6 | oxygen depletion | 40,9 % | 5 d | | ECHA |
| Geraniol | 106-24-1 | DOC removal | 90 - 100 % | 3 d | | ECHA |
| Benzyl alcohol | 100-51-6 | oxygen depletion | 92 - 96 % | 14 d | | ECHA |
| Benzyl alcohol | 100-51-6 | DOC removal | 95 % | 21 d | | ECHA |
| Geranyl acetate | 105-87-3 | oxygen depletion | >70 % | 28 d | | ECHA |
| 4-methyl-anisole | 104-93-8 | oxygen depletion | 79 % | 28 d | | ECHA |

12.3 Bioaccumulative potential

Data are not available.

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| Bioaccumulative potential of components of the mixture | | | | |
|--|-----------|-------|----------------------------------|----------|
| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
| Benzoic acid benzyl ester | 120-51-4 | 193,4 | 3,97 (25 °C) | |
| Acetic acid benzyl ester | 140-11-4 | 8 | 1,96 (pH value: 7, 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 | | $\geq 4,6 - \leq 4,78$ (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.

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. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

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.

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SECTION 14: Transport information

14.1 UN number or ID number

| | |
|-----------|---------|
| ADRRID | UN 3082 |
| IMDG-Code | UN 3082 |
| ICAO-TI | UN 3082 |

14.2 UN proper shipping name

| | |
|--|---|
| ADRRID | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| IMDG-Code | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, 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)

| | |
|-----------|---|
| ADRRID | 9 |
| IMDG-Code | 9 |
| ICAO-TI | 9 |

14.4 Packing group

| | |
|-----------|-----|
| ADRRID | III |
| IMDG-Code | III |
| ICAO-TI | III |

14.5 Environmental hazards

| | |
|--|--------------------------------------|
| | hazardous to the aquatic environment |
| Environmentally hazardous substance (aquatic environment): | Benzoic acid benzyl ester, Farnesol |

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime 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 of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

| | |
|---------------------------------------|---|
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| Particulars in the transport document | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: Benzoic acid benzyl ester, Farnesol), 9, III, (-) |
| Classification code | M6 |
| Danger label(s) | 9, "Fish and tree" |

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| | |
|-------------------------------|--|
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Special provisions (SP) | 274, 335, 375, 601 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 L |
| Transport category (TC) | 3 |
| Tunnel restriction code (TRC) | - |
| Hazard identification No | 90 |

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) Additional information

| | |
|---------------------|--------------------|
| Classification code | M6 |
| Danger label(s) | 9 Fish and tree |



| | |
|--------------------------|---------------------------|
| Environmental hazards | Yes Hazardous to water |
| Special provisions (SP) | 274, 335, 375, 601 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 L |
| Transport category (TC) | 3 |
| Hazard identification No | 90 |

International Maritime Dangerous Goods Code (IMDG) - Additional information

| | |
|--|--|
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| Particulars in the shipper's declaration | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, 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. |
| Particulars in the shipper's declaration | UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: Benzoic acid benzyl ester, Farnesol), 9, III |
| Environmental hazards | YES (hazardous to the aquatic environment) |
| Danger label(s) | 9, "Fish and tree" |
| | |
| Special provisions (SP) | A97, A158, A197, A215 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 30 kg |

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

| Dangerous substances with restrictions (REACH, Annex XVII) | | | | |
|--|--|--------|-------------|----|
| Name of substance | Name acc. to inventory | CAS No | Restriction | No |
| Oil of ylang-ylang | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | | R3 | 3 |
| Geranyl acetate | substances in tattoo inks and permanent make-up | | R75 | 75 |
| 4-methylanisole | substances in tattoo inks and permanent make-up | | R75 | 75 |
| Geraniol | substances in tattoo inks and permanent make-up | | R75 | 75 |
| Salicylic acid benzyl ester | substances in tattoo inks and permanent make-up | | R75 | 75 |
| β -Caryophyllene | substances in tattoo inks and permanent make-up | | R75 | 75 |

Legend

- R3
- Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
 - Articles not complying with paragraph 1 shall not be placed on the market.
 - Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and
 - present an aspiration hazard and are labelled with H304.
 - Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
 - Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil"

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Legend

- or even sucking the wick of lamps - may lead to life-threatening lung damage";
- (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
- (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;

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Legend

- R75
1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
 - (a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
 - (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
 - (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
 - (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:
 - (i) 0,1 % by weight, if the substance is used solely as a pH regulator;
 - (ii) 0,01 % by weight, in all other cases;
 - (e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
 - (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:
 - (i) "Rinse-off products";
 - (ii) "Not to be used in products applied on mucous membranes";
 - (iii) "Not to be used in eye products";
 - (g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
 - (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
 2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
 3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.
 4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
 - (a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
 - (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
 5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
 6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.
 7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
 - (a) the statement "Mixture for use in tattoos or permanent make-up";
 - (b) a reference number to uniquely identify the batch;
 - (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
 - (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;
 - (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;
 - (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;
 - (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use. Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.
 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

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Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

| 2012/18/EU (Seveso III) | | | | |
|-------------------------|--|---|-----|-------|
| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | | Notes |
| E2 | environmental hazards (hazardous to the aquatic environment, cat. 2) | 200 | 500 | 57) |

Notation

57) Hazardous to the Aquatic Environment in category Chronic 2

Deco-Paint Directive

| | |
|-------------|-------------------|
| VOC content | 49 % 470,4 g/l |
|-------------|-------------------|

Industrial Emissions Directive (IED)

| | |
|-------------|---------|
| VOC content | 45 % |
| VOC content | 432 g/l |

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

| List of pollutants (WFD) | | | | |
|--------------------------|---|--------|-----------|---------|
| Name of substance | Name acc. to inventory | CAS No | Listed in | Remarks |
| 4-methylanisole | Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment | | a) | |

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| List of pollutants (WFD) | | | | |
|--------------------------|---|--------|-----------|---------|
| Name of substance | Name acc. to inventory | CAS No | Listed in | Remarks |
| Linalool | Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment | | a) | |

Legend

A) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

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 |

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| Country | Inventory | Status |
|---------|-----------|--------------------------------|
| 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 |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ | National Inventory of Chemical Substances |
| ISHA-ENCS | Inventory of Existing and New Chemical Substances (ISHA-ENCS) |
| KECI | Korea Existing Chemicals Inventory |
| NDSL | Non-domestic Substances List (NDSL) |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances |
| TCSI | Taiwan Chemical Substance Inventory |
| 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: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 9, section 14

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|--|-----------------|
| 2.1 | | Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table) | yes |
| 2.2 | | Pictograms: change in the listing (table) | yes |
| 2.2 | | Hazard statements: change in the listing (table) | yes |
| 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 |
| 2.2 | | Labelling of packages where the contents do not exceed 125 ml: change in the listing (table) | yes |
| 2.2 | | Labelling of packages where the contents do not exceed 125 ml: change in the listing (table) | yes |
| 2.2 | contains: β -Caryophyllene, Geraniol, Linalool, Salicylic acid benzyl ester, Farnesol, Geranyl acetate | contains: β -Caryophyllene, Geraniol, Salicylic acid benzyl ester, Linalool, Farnesol, Geranyl acetate | yes |

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Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------------|---|
| Acute Tox. | Acute toxicity |
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) |
| Aquatic Acute | Hazardous to the aquatic environment - acute hazard |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard |
| 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) |
| Ceiling-C | Ceiling value |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| 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 |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| 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 |
| Eye Irrit. | Irritant to the eye |
| 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 |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |

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| Abbr. | Descriptions of used abbreviations |
|----------------------|---|
| 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 |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| Repr. | Reproductive toxicity |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| S.I. No. 619 of 2001 | Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| Skin Sens. | Skin sensitisation |
| STEL | Short-term exposure limit |
| STOT SE | Specific target organ toxicity - single exposure |
| SVHC | Substance of Very High Concern |
| TWA | Time-weighted average |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). 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 |
|--------|--|
| 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. |
| H335 | May cause respiratory irritation. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Disclaimer

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