

WHITE LILAC #EU19733F

REGULATION (EC) No 1223/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL - COMMISSION REGULATION (EU) No 344/2013 - COMMISSION
REGULATION (EU) No 483/2013
Issue date(DD/MM/YEAR): 10/09/2020 Revision date: 08/09/2021 : Version: 1.0

DECLARATION OF COMPLIANCE FOR PERFUME COMPOUNDS (DCP)

The adoption of the 7th amendement of the European Cosmetic Directive 76/768/EEC requires any cosmetic product containing any of 26 raw materials identified by the Scientific Committee on Cosmetic Products and Non-Food Products intended for Consumers as likely to cause a contact allergy when present above certain trigger levels to be declared on the package label.

| ALLERGENS | | |
|-------------------------------------|-----------|-----------------------|
| Name of common ingredients glossary | CAS-No. | Allergen % in product |
| d-Limonene | 5989-27-5 | 7 |
| Benzyl benzoate | 120-51-4 | 0.0442 |
| .alpha.-Hexyl cinnamic aldehyde | 101-86-0 | 3 |
| Eugenol | 97-53-0 | 0.5 |
| Benzyl salicylate | 118-58-1 | 1 |

CERTIFICATE OF CONFORMITY OF FRAGRANCE MIXTURES WITH IFRA STANDARDS

This certificate assesses the conformity of the fragrance mixture with IFRA Standards and provides restrictions for use as necessary. It is based only on those materials subject to IFRA Standards for the toxicity endpoint(s) described in each Standard.

This Certificate does therefore not replace a comprehensive safety assessment of the fragrance mixture.

CERTIFYING PARTY:

CERTIFICATE DELIVERED TO:

SCOPE OF THE CERTIFICATE:

Product: WHITE LILAC #EU19733F

Compulsory information:

We certify that the above mixture is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA), up to and including the 51 Amendment to the IFRA Code of Practice (published June, 2023) provided it is used in the following class(es) at a maximum concentration level of:

| IFRA Category(ies) [see Table 10 in Guidance for the use of IFRA Standards for details] | Level of use (%)* | Product application |
|---|-------------------|--|
| Category 1 | 0 % | Lip Products of all types (solid and liquid lipsticks, balms, clear or colored, etc.) Children's toys |
| Category 2 | 0.55 % | Deodorant and antiperspirant products of all types including any product with intended or reasonably foreseeable use on the axillae or labelled as such (spray, stick, roll-on, under-arm, deocologne, etc.) Body sprays (including body mist) |
| Category 3 | 11 % | Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturizer Facial make up and foundation Make-up remover for face and eyes Nose pore strips Wipes or refreshing tissues for face, neck, hands, body |

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| | | |
|-------------|-------|--|
| | | Body and face paint (for children and adults) Facial masks for face and around the eyes |
| Category 4 | 10 % | Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau de Toilette, Parfum, Cologne, solid perfume, fragrancing cream, etc.), aftershaves of all types (except creams and balms) Fragranced bracelets Ingredients of perfume kits and fragrance mixtures for cosmetic kits Scent pads, foil packs Scent strips for hydroalcoholic products |
| Category 5A | 2.6 % | Body creams, oils, lotions of all types Foot care products (creams and powders) Insect repellent (intended to be applied to the skin) All powders and talc (excluding baby powders and talc) |
| Category 5B | 2.6 % | Facial toner Facial moisturizers and creams (including care products for beard and mustache) |
| Category 5C | 2.6 % | Hand cream Nail care products including cuticle creams, nail lacquer remover, etc. Hand sanitizers |
| Category 5D | 2.6 % | Baby cream/lotion, baby oil, baby powders and talc |
| Category 6 | 0 % | Toothpaste Mouthwash, including breath sprays Toothpowder, strips, mouthwash tablets |
| Category 7A | 21 % | Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse-off hair dyes |
| Category 7B | 21 % | Hair sprays of all types (pumps, aerosol sprays, etc.) Hair styling aids non sprays (mousse, gels, leave-on conditioners) Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes Shampoo - Dry (waterless shampoo) Hair deodorizer, hair perfume* |
| Category 8 | 1.1 % | Intimate wipes Intimate deodorant spray Tampons Baby wipes Toilet paper (wet) |
| Category 9 | 20 % | Bar soap Shampoo of all type Cleanser for face (rinse-off) Conditioner (rinse-off) Liquid soap Body washes and shower gels of all types Baby wash, bath, shampoo Bath gels, foams, mousses, salts, oils and other products |

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| | | |
|--------------|-------|---|
| | | <p>added to bathwater (such as bath bombs)</p> <p>Foot care products (feet are placed in a bath for soaking)</p> <p>Shaving creams of all types (stick, gels, foams, etc.)</p> <p>All depilatories (including facial) and waxes for mechanical hair removal</p> <p>Shampoos for pets</p> |
| Category 10A | 72 % | <p>Hand wash laundry detergent (including concentrates)</p> <p>Laundry pre-treatment of all types (e.g.paste, sprays, sticks)</p> <p>Hand dishwashing detergent (including concentrates)</p> <p>Hard surface cleaners of all types (bathroom and kitchen cleansers,furniture polish, etc.)</p> <p>Machine laundry detergents with skin contact (e.g. liquids, powders) including concentrates</p> <p>Toilet seat wipes</p> <p>Fabric softeners of all types excluding fabric softener sheets</p> <p>Household cleaning products, other types including fabric cleaners, soft surface cleaners, carpet cleaners, furniture polishes sprays and wipes, leather cleaning wipes, stain removers, fabric enhancing sprays, treatment products for textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics)</p> <p>Floor wax</p> <p>Fragranced oil for lamp ring, reed diffusers, pot-pourri, liquid refills for air fresheners (non-cartridge systems), etc.</p> <p>Ironing water (Odorized distilled water)</p> <p>Dry cleaning kits (involving manual application on the textile)</p> |
| Category 10B | 72 % | <p>Animal sprays – sprays applied to animals of all types</p> <p>Air freshener sprays, manual, including aerosol and pump</p> <p>Aerosol/spray insecticides</p> |
| Category 11A | 21 % | <p>Feminine hygiene conventional pads,liners, interlabial pads</p> <p>Baby diapers</p> <p>Incontinence pant, pad</p> <p>Toilet paper (dry)</p> |
| Category 11B | 21 % | <p>Tights with moisturizers</p> <p>Scented socks, gloves</p> <p>Facial tissues (dry tissues)</p> <p>Napkins</p> <p>Pillow spray</p> <p>Paper towels</p> <p>Wheat bags</p> <p>Facial masks (paper/protective) e.g.surgical masks not used as medical device</p> <p>Fertilizers, solid (pellet or powder)</p> |
| Category 12 | 100 % | <p>Candles of all types (including encased)</p> <p>Laundry detergents for machine wash with minimal skin contact (e.g. Liquid tabs, pods)</p> |

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Automated air fresheners and fragrancing of all types (concentrated aerosol with metered doses (range 0.05-0.5mL/spray), plug-ins, closed systems, solid substrate, membrane delivery, electrical, powders, fragrancing sachets, incense, liquid refills (cartridge), air freshening crystals, solid non aerosol car diffuser)
 Air delivery systems
 Cat litter
 Cell phone cases
 Deodorizers/maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders)
 Dry cleaning kits (placed in the dryer)
 Dryer sheets and fabric softener sheets
 Fuels
 Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosols/sprays
 Joss sticks or incense sticks
 Dishwash detergent and deodorizers – for machine wash
 Olfactive board games
 Paints
 Plastic articles (excluding toys)
 Scratch and sniff
 Scent pack
 Scent delivery system (using dry air technology)
 Shoe polishes
 Rim blocks (toilet)
 Toilet gel
 Scent beads

**Actual use level or maximum use level*

Information about presence and concentration of fragrance ingredients subject to IFRA Standards in the fragrance mixture (WHITE LILAC #EU19733F) is as follows:

| Materials under the scope of IFRA Standards | CAS-No. | Recommendation from IFRA Standard: | Concentration (%) in fragrance mixture or finished product | Comment |
|---|--|------------------------------------|--|---------|
| 2-Hexenal | 6728-26-3 505-57-7 16635-54-4 | Restricted | 0.0021 | |
| Dimethylcyclohex-3-ene-1-carbaldehyde (mixed isomers) | 27939-60-2 35145-02-9 36635-35-5 67801-65-4 68039-48-5 68039-49-6 68084-52-6 68737-61-1 | Restricted | 2.0355 | |
| cis,trans-4-(Isopropyl)cyclohexanemethanol | 5502-75-0 13828-37-0 13674-19-6 | Restricted | 0.0172 | |
| alpha-Hexyl cinnamic aldehyde | 101-86-0 | Restricted | 3 | |

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| | | | |
|-------------------------|---|---------------|--------|
| Methyl octine carbonate | 111-80-8 | Restricted | 0.1 |
| Benzyl salicylate | 118-58-1 | Restricted | 1 |
| Benzyl benzoate | 120-51-4 | Restricted | 0.0442 |
| Phenylacetaldehyde | 122-78-1 | Restricted | 0.1 |
| Hexyl salicylate | 6259-76-3 | Restricted | 0.134 |
| Eugenol | 97-53-0 | Restricted | 0.5 |
| Limonene | 138-86-3 7705-14-8 5989-27-5 5989-54-8 | Specification | 7 |

Signature

Date

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Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 9/10/2020 Revision date: 10/16/2023 Supersedes version of: 9/8/2021 Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product name : WHITE LILAC #EU19733F
UFI : G5NR-R1YX-N001-YE10
Product code : EU19733F
Type of product : Perfumes, fragrances
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
Industrial/Professional use spec : For professional use only
Industrial
Use of the substance/mixture : Perfumes, fragrances
Function or use category : Odour agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

1.4. Emergency telephone number

Emergency number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
Full text of H- and EUH-statements: see section 16

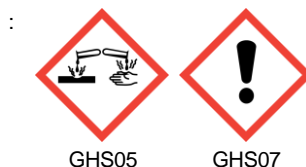
Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

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| | |
|--------------------------------|--|
| Contains | : d-Limonene; Hexyl salicylate; Phenylethyl acetate; Nopyl acetate; Hexyl cinnamic aldehyde; Triplal (Vertocitral); Benzyl salicylate; Eugenol; Phenylacetaldehyde; Methyl octine carbonate |
| Hazard statements (CLP) | : H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H412 - Harmful to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 - IF ON SKIN: Wash with plenty of water. |
| Extra phrases | : For professional users only. |

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|-----------|---|
| Terpineol | CAS-No.: 8000-41-7 EC-No.: 232-268-1 | 6.5 – 13 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| (R)-p-mentha-1,8-diene; d-limonene substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH) | CAS-No.: 5989-27-5 EC-No.: 205-341-0 EC Index-No.: 601-096-00-2 REACH-no: 01-2119493353-35 | 3.5 – 7 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 |
| tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) | CAS-No.: 63500-71-0 EC-No.: 405-040-6 EC Index-No.: 603-101-00-3 REACH-no: 01-000015458-64 | 1 – 4.007 | Eye Irrit. 2, H319 |
| Benzyl acetate substance with national workplace exposure limit(s) (BE, DK, ES, IE, LT, LV, PT, RO) | CAS-No.: 140-11-4 EC-No.: 205-399-7 REACH-no: 01-2119638272-42 | 2 – 4 | Aquatic Chronic 3, H412 |
| Phenylethyl acetate | CAS-No.: 103-45-7 EC-No.: 203-113-5 REACH-no: 01-2119976340-38 | 1.5 – 3 | Eye Dam. 1, H318 |
| Nopyl acetate | CAS-No.: 128-51-8 EC-No.: 204-891-9 | 1.5 – 3 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Skin Sens. 1B, H317 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|------------|--|
| Hexyl cinnamic aldehyde | CAS-No.: 101-86-0 EC-No.: 202-983-3 REACH-no: 01-2119533092-50 | 1.5 – 3 | Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Dihydromyrcenol | CAS-No.: 18479-58-8 EC-No.: 242-362-4 REACH-no: 01-2119457274-37 | 1.3 – 2.5 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| Triplal (Vertocitral) | CAS-No.: 68039-49-6 EC-No.: 268-264-1 | 1 – 2.0355 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| Verdyl acetate | CAS-No.: 5413-60-5 EC-No.: 226-501-6 | 0.8 – 1.5 | Aquatic Chronic 3, H412 |
| Benzyl salicylate | CAS-No.: 118-58-1 EC-No.: 204-262-9 EC Index-No.: 607-754-00-5 REACH-no: 01-2119969442-31 | 0.5 – 1 | Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 |
| Rose crystals | CAS-No.: 90-17-5 EC-No.: 201-972-0 | 0.5 – 1 | Skin Irrit. 2, H315 Aquatic Chronic 3, H412 |
| Allyl amyl glycolate | CAS-No.: 67634-00-8 EC-No.: 266-803-5 | 0.3 – 0.6 | Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation), H330 Aquatic Chronic 1, H410 |
| para-Cresyl methyl ether | CAS-No.: 104-93-8 EC-No.: 203-253-7 | 0.3 – 0.5 | Acute Tox. 4 (Oral), H302 Repr. 2, H361 Skin Irrit. 2, H315 |
| Eugenol | CAS-No.: 97-53-0 EC-No.: 202-589-1 REACH-no: 01-2119971802-33 | 0.3 – 0.5 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| Hexyl salicylate | CAS-No.: 6259-76-3 EC-No.: 228-408-6 | 0.02 – 0.4 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| isopentyl acetate substance with national workplace exposure limit(s) (AT, BE, BG, CY, DE, DK, EE, ES, FI, FR, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, TR); substance with a Community workplace exposure limit | CAS-No.: 123-92-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2 REACH-no: 01-2119548408-32 | 0.1 – 0.1 | Flam. Liq. 3, H226 |
| Phenylacetaldehyde | CAS-No.: 122-78-1 EC-No.: 204-574-5 REACH-no: 01-2120766865-37 | 0.1 – 0.1 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 |
| Methyl octine carbonate | CAS-No.: 111-80-8 EC-No.: 203-909-2 REACH-no: 01-2120139912-55 | 0.1 – 0.1 | Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|------------|---|
| Alcohol C-10 substance with national workplace exposure limit(s) (BG, DE, LT, LV, RO, CH) | CAS-No.: 112-30-1 EC-No.: 203-956-9 | 0 – 0.0029 | Aquatic Chronic 3, H412 |
| Aldehyde C-6 substance with national workplace exposure limit(s) (FI, PL) | CAS-No.: 66-25-1 EC-No.: 200-624-5 | 0 – 0.0007 | Flam. Liq. 3, H226 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest. |
| First-aid measures after skin contact | : If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion | : Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell. |

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

| | |
|-------------------------------------|--|
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |

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 | : Sand. Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--|--------------------------------|

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.
Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Take up liquid spill into absorbent material. Store away from other materials.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Store in a well-ventilated place. Keep cool.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.
Storage temperature : 25 °C
Storage area : Store in a well-ventilated place. Store away from heat.
Special rules on packaging : Store in a closed container.
Packaging materials : Do not store in corrodable metal.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
|--|-----------------------|
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 140 mg/m ³ |

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| | |
|--|---|
| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
| HTP (OEL TWA) [2] | 25 ppm |
| HTP (OEL STEL) | 280 mg/m ³ |
| HTP (OEL STEL) [ppm] | 50 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 28 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| AGW (OEL TWA) [2] | 5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Chemical category | Skin notation, Skin sensitization |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 28 mg/m ³ |
| OEL TWA | 5 ppm |
| OEL STEL | 112 mg/m ³ |
| OEL STEL | 20 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 168 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 30 ppm |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 140 mg/m ³ |
| Grenseverdi (OEL TWA) [2] | 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 37.5 ppm (value calculated) |
| OEL chemical category | Allergenic substance |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 40 mg/m ³ |
| MAK (OEL TWA) [2] | 7 ppm |
| KZGW (OEL STEL) | 80 mg/m ³ |
| KZGW (OEL STEL) [ppm] | 14 ppm |
| OEL chemical category | Sensitizer |
| Benzyl acetate (140-11-4) | |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 62 mg/m ³ |
| OEL TWA | 10 ppm |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 61 mg/m ³ |
| OEL TWA [2] | 10 ppm |
| OEL STEL | 122 mg/m ³ |

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| | |
|---|--|
| Benzyl acetate (140-11-4) | |
| OEL STEL | 20 ppm |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [2] | 10 ppm |
| OEL STEL | 30 ppm (calculated) |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 5 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 10 ppm |
| OEL chemical category | A4 - Not Classifiable as a Human Carcinogen |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 50 mg/m ³ |
| OEL TWA | 8 ppm |
| OEL STEL | 80 mg/m ³ |
| OEL STEL | 13 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 62 mg/m ³ |
| VLA-ED (OEL TWA) [2] | 10 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 10 ppm |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| isopentyl acetate (123-92-2) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOEL TWA | 270 mg/m ³ |
| IOEL TWA [ppm] | 50 ppm |
| IOEL STEL | 540 mg/m ³ |
| IOEL STEL [ppm] | 100 ppm |
| Austria - Occupational Exposure Limits | |
| MAK (OEL TWA) | 270 mg/m ³ (Pentyl acetate (all isomers)) |
| MAK (OEL TWA) [ppm] | 50 ppm (Pentyl acetate (all isomers)) |
| MAK (OEL STEL) | 540 mg/m ³ (Pentylacetate) |
| MAK (OEL STEL) [ppm] | 100 ppm (Pentylacetate) |
| Belgium - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL | 100 ppm |

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| isopentyl acetate (123-92-2) | |
|---|---|
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL | 100 ppm |
| Croatia - Occupational Exposure Limits | |
| GVI (OEL TWA) [1] | 270 mg/m ³ |
| GVI (OEL TWA) [2] | 50 ppm |
| KGVI (OEL STEL) | 540 mg/m ³ |
| KGVI (OEL STEL) [ppm] | 100 ppm |
| Cyprus - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL | 100 ppm |
| Denmark - Occupational Exposure Limits | |
| OEL TWA [1] | 271 mg/m ³ (Amyl acetate, all isomers) |
| OEL TWA [2] | 50 ppm (Amyl acetate, all isomers) |
| OEL STEL | 540 mg/m ³ |
| OEL STEL | 100 ppm |
| Estonia - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL | 100 ppm |
| Finland - Occupational Exposure Limits | |
| HTP (OEL TWA) [1] | 270 mg/m ³ (Pentyl acetate) |
| HTP (OEL TWA) [2] | 50 ppm (Pentyl acetate) |
| HTP (OEL STEL) | 540 mg/m ³ |
| HTP (OEL STEL) [ppm] | 100 ppm |
| France - Occupational Exposure Limits | |
| VME (OEL TWA) | 270 mg/m ³ (restrictive limit) |
| VME (OEL TWA) [ppm] | 50 ppm (restrictive limit) |
| VLE (OEL C/STEL) | 540 mg/m ³ (restrictive limit) |
| VLE (OEL C/STEL) [ppm] | 100 ppm (restrictive limit) |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 270 mg/m ³ |
| AGW (OEL TWA) [2] | 50 ppm |

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|---|-----------------------|
| Gibraltar - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL | 100 ppm |
| Greece - Occupational Exposure Limits | |
| OEL TWA | 530 mg/m ³ |
| OEL TWA | 100 ppm |
| OEL STEL | 800 mg/m ³ |
| OEL STEL | 150 ppm |
| Hungary - Occupational Exposure Limits | |
| AK (OEL TWA) | 270 mg/m ³ |
| CK (OEL STEL) | 540 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL TWA [1] | 260 mg/m ³ |
| OEL TWA [2] | 50 ppm |
| OEL STEL | 520 mg/m ³ |
| OEL STEL | 100 ppm |
| Italy - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL | 100 ppm |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA | 50 ppm |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 270 mg/m ³ |
| IPRV (OEL TWA) [ppm] | 50 ppm |
| TPRV (OEL STEL) | 540 mg/m ³ |
| TPRV (OEL STEL) [ppm] | 100 ppm |
| Luxembourg - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL | 100 ppm |
| Malta - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA | 50 ppm |

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| isopentyl acetate (123-92-2) | |
|--|---|
| OEL STEL | 540 mg/m ³ |
| OEL STEL | 100 ppm |
| Netherlands - Occupational Exposure Limits | |
| TGG-15min (OEL STEL) | 530 mg/m ³ |
| TGG-15min (OEL STEL) [ppm] | 98.1 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 250 mg/m ³ |
| NDSch (OEL STEL) | 500 mg/m ³ |
| Portugal - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ (indicative limit value) |
| OEL TWA | 50 ppm (indicative limit value (Pentyl acetate, all isomers)) |
| OEL STEL | 540 mg/m ³ (indicative limit value) |
| OEL STEL | 100 ppm (indicative limit value) |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL | 100 ppm |
| Slovakia - Occupational Exposure Limits | |
| NPHV (OEL TWA) [1] | 270 mg/m ³ |
| NPHV (OEL TWA) [2] | 50 ppm |
| NPHV (OEL C) | 540 mg/m ³ |
| Slovenia - Occupational Exposure Limits | |
| OEL TWA | 270 mg/m ³ |
| OEL TWA | 50 ppm |
| OEL STEL | 540 mg/m ³ |
| OEL STEL | 100 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (OEL TWA) [1] | 270 mg/m ³ (indicative limit value) |
| VLA-ED (OEL TWA) [2] | 50 ppm (indicative limit value) |
| VLA-EC (OEL STEL) | 540 mg/m ³ |
| VLA-EC (OEL STEL) [ppm] | 100 ppm |
| Sweden - Occupational Exposure Limits | |
| NGV (OEL TWA) | 270 mg/m ³ (Pentyl acetates) |
| NGV (OEL TWA) [ppm] | 50 ppm (Pentyl acetates) |
| KTV (OEL STEL) | 540 mg/m ³ (Pentyl acetates) |
| KTV (OEL STEL) [ppm] | 100 ppm (Pentyl acetates) |
| Norway - Occupational Exposure Limits | |
| Grenseverdi (OEL TWA) [1] | 260 mg/m ³ |

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| | |
|--|---|
| isopentyl acetate (123-92-2) | |
| Grenseverdi (OEL TWA) [2] | 50 ppm |
| Korttidsverdi (OEL STEL) | 325 mg/m ³ (value calculated) |
| Korttidsverdi (OEL STEL) [ppm] | 75 ppm (value calculated) |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA [ppm] | 50 ppm (Pentyl acetate, all isomers) |
| ACGIH OEL STEL [ppm] | 100 ppm (Pentyl acetate, all isomers) |
| Alcohol C-10 (112-30-1) | |
| Bulgaria - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| AGW (OEL TWA) [1] | 66 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| AGW (OEL TWA) [2] | 10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Latvia - Occupational Exposure Limits | |
| OEL TWA | 10 mg/m ³ |
| Lithuania - Occupational Exposure Limits | |
| IPRV (OEL TWA) | 10 mg/m ³ |
| Romania - Occupational Exposure Limits | |
| OEL TWA | 100 mg/m ³ |
| OEL TWA | 15 ppm |
| OEL STEL | 200 mg/m ³ |
| OEL STEL | 30 ppm |
| Switzerland - Occupational Exposure Limits | |
| MAK (OEL TWA) [1] | 66 mg/m ³ (aerosol, vapour) |
| MAK (OEL TWA) [2] | 10 ppm (aerosol, vapour) |
| KZGW (OEL STEL) | 66 mg/m ³ (aerosol, vapour) |
| KZGW (OEL STEL) [ppm] | 10 ppm (aerosol, vapour) |
| Aldehyde C-6 (66-25-1) | |
| Finland - Occupational Exposure Limits | |
| HTP (OEL STEL) | 42 mg/m ³ |
| HTP (OEL STEL) [ppm] | 10 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (OEL TWA) | 40 mg/m ³ |
| NDSch (OEL STEL) | 80 mg/m ³ |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

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8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------------|--|
| Physical state | : Liquid |
| Colour | : light yellow. amber. Conforms to standard. |
| Odour | : characteristic. characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not applicable |
| Explosive limits | : Not available |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : 80 °C |

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| | |
|---|------------------|
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : Not available |
| Solubility | : Not available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : Not available |
| Relative density | : 0.94 |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Terpineol (8000-41-7) | |
|--|-------------------------------|
| LD50 oral rat | 2900 mg/kg (Source: IUCLID) |
| LD50 oral | 4300 mg/kg bodyweight |
| LD50 dermal rabbit | > 3000 mg/kg (Source: IUCLID) |
| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
| LD50 oral rat | 4400 mg/kg (Source: CHEMVIEW) |

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| | |
|---|----------------------------------|
| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
| LD50 dermal rabbit | > 5 g/kg (Source: CHEMVIEW) |
| tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) (63500-71-0) | |
| LD50 dermal rabbit | > 2000 mg/kg (Source: ECHA_API) |
| Hexyl salicylate (6259-76-3) | |
| LD50 oral rat | > 5 g/kg (Source: NLM_CIP) |
| LD50 dermal rabbit | > 5000 mg/kg (Source: ECHA_API) |
| Benzyl acetate (140-11-4) | |
| LD50 oral rat | 2490 mg/kg (Source: JAPAN_GHS) |
| LD50 oral | 2490 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: JAPAN_GHS) |
| Phenylethyl acetate (103-45-7) | |
| LD50 oral rat | 3670 mg/kg (Source: NLM_CIP) |
| LD50 oral | 2500 mg/kg bodyweight |
| LD50 dermal rabbit | 6210 mg/kg (Source: ECHA_API) |
| Nopyl acetate (128-51-8) | |
| LD50 oral rat | 3 g/kg (Source: NLM_CIP) |
| LD50 oral | 2940 mg/kg bodyweight |
| Hexyl cinnamic aldehyde (101-86-0) | |
| LD50 oral rat | 3100 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3100 mg/kg bodyweight |
| LD50 dermal rabbit | > 3000 mg/kg (Source: EPA_HPVS) |
| LC50 Inhalation - Rat | > 5 mg/l/4h |
| Dihydromyrcenol (18479-58-8) | |
| LD50 oral rat | 3600 mg/kg (Source: NLM_CIP) |
| LD50 oral | 3600 mg/kg bodyweight |
| LD50 dermal rabbit | > 5 g/kg (Source: CHEMVIEW) |
| Triplal (Vertocitral) (68039-49-6) | |
| LD50 oral | 3900 mg/kg bodyweight |
| Verdyl acetate (5413-60-5) | |
| LD50 oral | 3050 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: ECHA_API) |
| Benzyl salicylate (118-58-1) | |
| LD50 oral rat | 2227 mg/kg (Source: NLM_CIP) |
| LD50 oral | 2200 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: CHEMVIEW) |
| Rose crystals (90-17-5) | |
| LD50 oral rat | 6800 mg/kg (Source: NLM_CIP) |

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| | |
|---|--|
| Rose crystals (90-17-5) | |
| LD50 dermal rat | > 2000 mg/kg (Source: ECHA_API) |
| LC50 Inhalation - Rat | > 5 mg/l (Exposure time: 6 h Source: ECHA_API) |
| Allyl amyl glycolate (67634-00-8) | |
| LD50 oral | 500 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg (Source: ECHA_API) |
| LC50 Inhalation - Rat | 0.43 mg/l/4h |
| LC50 Inhalation - Rat (Dust/Mist) | 0.5 mg/l/4h |
| para-Cresyl methyl ether (104-93-8) | |
| LD50 oral rat | 1920 mg/kg (Source: NLM_CIP) |
| LD50 oral | 1900 mg/kg bodyweight |
| LD50 dermal rabbit | > 5 g/kg (Source: NLM_CIP) |
| LC50 Inhalation - Rat | > 6.1 mg/l/4h |
| Eugenol (97-53-0) | |
| LD50 oral rat | 1930 mg/kg (Source: NZ_CCID) |
| LD50 oral | 2500 mg/kg bodyweight |
| Phenylacetaldehyde (122-78-1) | |
| LD50 oral | 1550 mg/kg bodyweight |
| LD50 dermal | 2500 mg/kg bodyweight |
| Methyl octine carbonate (111-80-8) | |
| LD50 oral rat | 2220 mg/kg (Source: NLM_CIP) |
| LD50 oral | 1600 mg/kg bodyweight |
| LD50 dermal | 4500 mg/kg bodyweight |
| Alcohol C-10 (112-30-1) | |
| LD50 oral rat | 4720 mg/kg (Source: NZ_CCID) |
| LD50 dermal rabbit | 3560 mg/kg (Source: NLM_CIP) |
| Aldehyde C-6 (66-25-1) | |
| LD50 oral rat | 4890 mg/kg (Source: NLM_CIP) |
| LD50 dermal rabbit | > 8100 mg/kg (Source: ECHA_API) |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye damage. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
| IARC group | 3 - Not classifiable |
| Benzyl acetate (140-11-4) | |
| IARC group | 3 - Not classifiable |
| Eugenol (97-53-0) | |
| IARC group | 3 - Not classifiable |

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| | |
|------------------------|------------------|
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

| | |
|---|--|
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met |
|---|--|

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - general | : Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects. |

(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)

| | |
|-----------------|--|
| LC50 - Fish [1] | 0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| LC50 - Fish [2] | 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA) |

Benzyl salicylate (118-58-1)

| | |
|-----------------|---|
| LC50 - Fish [1] | 1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA) |
|-----------------|---|

para-Cresyl methyl ether (104-93-8)

| | |
|----------------------|---|
| EC50 - Crustacea [1] | 44.2 mg/l (Exposure time: 48 h - Species: Daphnia magna Straus) |
| EC50 72h - Algae [1] | 320 mg/l (Species: Desmodesmus subspicatus) |
| EC50 96h - Algae [1] | 390 mg/l (Species: Desmodesmus subspicatus) |

Eugenol (97-53-0)

| | |
|-----------------|---|
| LC50 - Fish [1] | 13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA) |
|-----------------|---|

Alcohol C-10 (112-30-1)

| | |
|----------------------|--|
| LC50 - Fish [1] | 2.2 – 2.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| LC50 - Fish [2] | 4.12 – 6.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) |
| EC50 - Crustacea [1] | 3 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

Aldehyde C-6 (66-25-1)

| | |
|-----------------|--|
| LC50 - Fish [1] | 12 – 16.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
|-----------------|--|

12.2. Persistence and degradability

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| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

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12.3. Bioaccumulative potential

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|--|------------------------------------|
| Bioaccumulative potential | Not established. |
| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.38 (at 37 °C (at pH 7.2) |
| tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) (63500-71-0) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.65 (at 23 °C (at pH >6.09-<6.74) |
| Hexyl salicylate (6259-76-3) | |
| Partition coefficient n-octanol/water (Log Pow) | 5.5 (at 30 °C (at pH 7) |
| Benzyl acetate (140-11-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.96 (at 25 °C (at pH 7) |
| Phenylethyl acetate (103-45-7) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.4 (at 25 °C) |
| Dihydromyrcenol (18479-58-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.25 (at 40 °C (at pH 7) |
| Verdyl acetate (5413-60-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.2 (at 30 °C (at pH 5.92) |
| Benzyl salicylate (118-58-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 4 |
| Rose crystals (90-17-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.535 (at 25 °C) |
| Allyl amyl glycolate (67634-00-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.96 (at 25 °C (at pH 2.3) |
| para-Cresyl methyl ether (104-93-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.8 (at 35 °C (at pH 7) |
| Eugenol (97-53-0) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.83 (at 30 °C (at pH 5.5) |
| isopentyl acetate (123-92-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.7 (at 35 °C) |
| Phenylacetaldehyde (122-78-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.44 (at 25 °C (at pH 6.4) |
| Methyl octine carbonate (111-80-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.4 (at 20 °C (at pH 7) |
| Alcohol C-10 (112-30-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 4.5 (at 25 °C (at pH 6) |
| Aldehyde C-6 (66-25-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.3 (at 25 °C (at pH 5) |

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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials | : Avoid release to the environment. |
| HP Code | : HP3 - "Flammable:" <ul style="list-style-type: none">– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure. HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|----------------|----------------|----------------|----------------|
| 14.1. UN number or ID number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

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| ADR | IMDG | IATA | ADN | RID |
|--|----------------|----------------|----------------|----------------|
| 14.5. Environmental hazards | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | | |
|--|---|---|
| Reference code | Applicable on | Entry title or description |
| 3(a) | (R)-p-mentha-1,8-diene; d-limonene; isopentyl acetate; Aldehyde C-6 | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F |
| 3(b) | WHITE LILAC #EU19733F; Terpeneol; (R)-p-mentha-1,8-diene; d-limonene; tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans); Hexyl salicylate; Phenylethyl acetate; Nopyl acetate; Hexyl cinnamic aldehyde; Dihydromyrcenol; Triplal (Vertocitral); Benzyl salicylate; Allyl amyl glycolate; para-Cresyl methyl ether; Eugenol; Phenylacetaldehyde; Methyl octine carbonate | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |

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| EU restriction list (REACH Annex XVII) | | |
|--|--|--|
| Reference code | Applicable on | Entry title or description |
| 3(c) | WHITE LILAC #EU19733F ; (R)-p-mentha-1,8-diene; d-limonene ; Hexyl salicylate ; Benzyl acetate ; Nopyl acetate ; Hexyl cinnamic aldehyde ; Triplal (Vertocitral) ; Verdyl acetate ; Benzyl salicylate ; Allyl amyl glycolate ; Phenylacetaldehyde ; Alcohol C-10 | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |
| 40. | (R)-p-mentha-1,8-diene; d-limonene ; isopentyl acetate ; Aldehyde C-6 | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

ABM category : A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment
SZW-lijst van kankerverwekkende stoffen : Terpeneol, Triplal (Vertocitral), Allyl amyl glycolate are listed
SZW-lijst van mutagene stoffen : Terpeneol, Triplal (Vertocitral), Allyl amyl glycolate are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

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Denmark

| | |
|-----------------------------|---|
| Class for fire hazard | : Class III-1 |
| Store unit | : 50 liter |
| Classification remarks | : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed |
| Danish National Regulations | : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |

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| Abbreviations and acronyms: | |
|-----------------------------|--|
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

Other information : None.

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Acute Tox. 2 (Inhalation) | Acute toxicity (inhal.), Category 2 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H361 | Suspected of damaging fertility or 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. |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1B | Skin sensitisation, category 1B |

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The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.