



| Chemical Name   | CAS-Nr.<br>REACH reg.                | (REGULATION (EC) No 1272/2008)  | Concentration<br>[%] |
|---|--------------------------------------|---|----------------------|
| 2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol             | 106185-75-5<br>01-2119529224-45-xxxx | H319Serious eye damage/eye irritation (EDI)Category 2A<br>H411Hazardous to the aquatic environment, long-term hazard (EH C)<br>Category 2   | 1 - 5%               |
| cerdyl methyl ether   | 19870-74-7<br>01-2120228335-61-xxxx  | H317Sensitization, skin (SS 1 / 1B) Category 1<br>H400Hazardous to the aquatic environment, acute hazard (EH A) Category 1<br>H410Hazardous to the aquatic environment, long-term hazard (EH C)<br>Category 1   | 0,1 - 1%             |
| trimethyl-1,3-cyclohexadienyl-2butenon                                  | 23696-85-7<br>01-2120105798-49-xxxx  | H315Skin corrosion/irritation (SCI)Category 2<br>H317+Sensitization, skin (SS 1A) Category 1<br>H411Hazardous to the aquatic environment, long-term hazard (EH C)<br>Category 2   | 0,01 - 1%            |
| 3,7-dimethyl-1,6-nonadien-3-ol (ethyl linalool)                         | 10339-55-6<br>01-2119969272-32-xxxx  | H315Skin corrosion/irritation (SCI)Category 2<br>H319Serious eye damage/eye irritation (EDI)Category 2A   | 1 - 5%               |
| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-Hexamethylcyclopenta [g]-2-benzopyran | 1222-05-5<br>01-2119488227-29-xxxx   | H400Hazardous to the aquatic environment, acute hazard (EH A) Category 1<br>H410Hazardous to the aquatic environment, long-term hazard (EH C)<br>Category 1   | 0,1 - 1%             |
| 1,3-benzodioxole-5-carboxaldehyde / piperonal                           | 120-57-0<br>01-2119983608-21-xxxx    | H317Sensitization, skin (SS 1 / 1B)Category 1   | 0,1 - 1%             |
| 2-hexyl-3-phenyl-2-propenal (trans & cis)                               | 101-86-0<br>01-2119533092-50-xxxx    | H317Sensitization, skin (SS 1 / 1B) Category 1<br>H400Hazardous to the aquatic environment, acute hazard (EH A) Category 1<br>H411Hazardous to the aquatic environment, long-term hazard (EH C)<br>Category 2   | 1 - 5%               |
| 7-acetyl-(1,8)-octahydro-1,1,6,7-tetramethylnaphthalene                 | 54464-57-2<br>01-2119489989-04-xxxx  | H315Skin corrosion/irritation (SCI)Category 2<br>H317Sensitization, skin (SS 1 / 1B) Category 1<br>H410Hazardous to the aquatic environment, long-term hazard (EH C)<br>Category 1  | 1 - 5%               |
| iso eugenol   | 97-54-1<br>01-2120223682-61-xxxx     | H302Acute toxicity, oral (ATO)Category 4<br>H312Acute toxicity, dermal (ATD)4<br>H315Skin corrosion/irritation (SCI)Category 2<br>H317+Sensitization, skin (SS 1A) Category 1<br>H319Serious eye damage/eye irritation (EDI)Category 2A<br>H332Acute toxicity, inhalation (ATI)Category 4<br>H335Specific target organ toxicity, single exposure; Respiratory tract irritation (STO-SE (RI))3 | 0,01 - 0,1%          |
| 2-(4-tert-butylbenzyl) Propionaldehyde                                  | 80-54-6<br>01-2119485965-18-xxxx     | H302Acute toxicity, oral (ATO)Category 4<br>H315Skin corrosion/irritation (SCI)Category 2<br>H317Sensitization, skin (SS 1 / 1B) Category 1<br>H361Reproductive toxicity (REP)2<br>H412Hazardous to the aquatic environment, long-term hazard (EH C)<br>Category 3  | 1 - 5%               |
| linalool  | 78-70-6<br>01-2119474016-42-xxxx     | H315Skin corrosion/irritation (SCI)Category 2<br>H317Sensitization, skin (SS 1 / 1B) Category 1<br>H319Serious eye damage/eye irritation (EDI)Category 2A   | 0,1 - 1%             |
| linalyl acetate   | 115-95-7<br>01-2119454789-19-xxxx    | H315Skin corrosion/irritation (SCI)Category 2<br>H317Sensitization, skin (SS 1 / 1B)Category 1  | 0,1 - 1%             |
| 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one            | 127-51-5<br>01-2120138569-45-xxxx    | H317Sensitization, skin (SS 1 / 1B) Category 1<br>H411Hazardous to the aquatic environment, long-term hazard (EH C)<br>Category 2   | 0,1 - 1%             |
| acetyl cedrene  | 32388-55-9<br>01-2119969651-28-xxxx  | H317Sensitization, skin (SS 1 / 1B) Category 1<br>H400Hazardous to the aquatic environment, acute hazard (EH A) Category 1<br>H410Hazardous to the aquatic environment, long-term hazard (EH C)<br>Category 1   | 0,1 - 1%             |

For the full text of the H-Statements mentioned in this Section, see Section 16.

**4. First aid measures**

**4.1 Description of first aid measures**

|                         |  |
|-------------------------|--|
| General advice          | Move out of dangerous area. Consult a physician.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave affected persons unattended.  |
| If inhaled              | If unconscious place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.   |
| In case of skin contact | If on skin, rinse well with water.   |
| In case of eye contact  | In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed            | Keep respiratory tract clear.<br>Immediately induce vomiting and seek medical advice.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>Take victim immediately to hospital.            |

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

|          |                   |
|----------|-------------------|
| Symptoms | no data available |
|----------|-------------------|

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

|           |                   |
|-----------|-------------------|
| Treatment | no data available |
|-----------|-------------------|

**5. Fire-fighting measures**

**5.1 Extinguishing media**

Suitable extinguishing media - Use firefighting measures that suit the environment.  
 Unsuitable extinguishing media High volume water jet

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

|                                      |  |
|--------------------------------------|--|
| Specific hazards during firefighting | Do not allow run-off from firefighting to enter drains or water courses. |
|--------------------------------------|--|

**5.3 Advice for firefighters**

|  |  |
|--|--|
| Special protective equipment for fire-fighters | Wear self-contained breathing apparatus for firefighting if necessary.   |
| Further information                            | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

**6. Accidental release measures**

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

|                      |                                    |
|----------------------|------------------------------------|
| Personal precautions | Use personal protective equipment. |
|----------------------|------------------------------------|

**6.2 Environmental precautions**

|                           |   |
|---------------------------|---|
| Environmental precautions | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
|---------------------------|---|

**6.3 Methods and materials for containment and cleaning up**

|                         |   |
|-------------------------|---|
| Methods for cleaning up | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal.<br>Collect mechanically. Reuse if possible or dispose of as required by national and local regulations. |
|-------------------------|---|

**6.4 Reference to other sections**

Not applicable

**7. Handling and storage**

**7.1 Precautions for safe handling**

Advice on safe handling

Avoid exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 For personal protection see section 8.  
 Smoking, eating and drinking should be prohibited in the application area.  
 To avoid spills during handling keep bottle on a metal tray.  
 Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

Temperature classno data available

Fire-fighting classno data available

Dust explosion classno data available

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

Requirements for storage areas and containers

Keep container tightly closed in a dry and well-ventilated place.  
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
 Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions

no data available

Advice on common storage

no data available

German storage class

no data available

Other data

No decomposition if stored and applied as directed.

**7.3 Specific end uses**

Specific use(s)

no data available

**8. Exposure controls/personal protection**

**8.1 Control parameters**

**BENZYL ACETATE**

Workingprogram : Limits Denmark 2007 Limits : 10 parts per million Publication : Arbejdstilsynet; Grænseværdier for stofferogmaterialer, augustus 2007 (publicatie C.0.1)

Workingprogram : Limits België 2009 Limits : 10 parts per million Publication : BelgischStaatsblad 19 mei 2009; N. 2009 - 2065

Workingprogram : Limits Spanje 2010 Limits : 10 parts per million Publication : Limites de Exposición Profesional para Agentes Químicos en España, Mayo 2010; Ministerio de Trabajo e Inmigración, INSHT

**ETHYL ACETATE**

Workingprogram : Werkprogramma EU 2010 Limits : 200 parts per million Publication : SCOEL/SUM/1

**LIMONENE**

Workingprogram : Werkprogramma Overname buitenlandse Limits (dossier 11) Limits : 110 milligram per kubieke meter Publication : 38975

Workingprogram : Limits Duitsland-AGS Limits : 20 parts per million Publication : TRGS 900

Workingprogram : Limits Zwitserland Limits : 20 parts per million Publication : Suva Pro Grenzwerte am Arbeitsplatz 2009

Workingprogram : Limits Noorwegen 2010 Limits : 25 parts per million Publication : Administrative normer for forurensningiarbeidsatmosfaere; 13. utgavenovember 2009; Arbejdstilsynet

Workingprogram : Limits Noorwegen 2010 Limits : 25 parts per million Publication : Administrative normer for forurensningiarbeidsatmosfaere; 13. utgavenovember 2009; Arbejdstilsynet

Workingprogram : Limits Noorwegen 2010 Limits : 25 parts per million Publication : Administrative normer for forurensningiarbeidsatmosfaere; 13. utgavenovember 2009; Arbejdstilsynet

Workingprogram : Limits Noorwegen 2010 Limits : 25 parts per million Publication : Administrative normer for forurensningiarbeidsatmosfaere; 13. utgavenovember 2009; Arbejdstilsynet

Workingprogram : Limits Finland 2007 Limits : 25 parts per million Publication : Julkaisuja 2004:4

**PINENE ALPHA**

Workingprogram : Limits België 2009 Limits : 20 parts per million Publication : BelgischStaatsblad 19 mei 2009; N. 2009- -2065

Workingprogram : Limits Zweden 2005 Limits : 25 parts per million Publication : AFS 2005:17

Workingprogram : Limits Noorwegen 2010 Limits : 25 parts per million Publication : Administrative normer for forurensningi arbeidsatmosfaere; 13. utgave november 2009; Arbejdstilsynet

Workingprogram : Limits Noorwegen 2010 Limits : 25 parts per million Publication : Administrative normer for forurensningi arbeidsatmosfaere; 13. utgave november 2009; Arbejdstilsynet

**8.2 Exposure controls**

**Personal protective equipment**

Hand protection

Use protective gloves. Gloves must comply with standard EN 374-1/2/3.  
 Suitable material: Nitrile  
 Breakthrough time (maximum wearing time): >30 min.  
 Thickness of the material: 0.13 mm

|                          |  |
|--------------------------|--|
| Eye protection           | Eye wash bottle with pure water<br>Tightly fitting, approved safety goggles with side shields with standard EN166.<br>Wear face-shield and protective suit for abnormal processing problems. |
| Skin and body protection | impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.  |
| Hygiene measures         | When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.   |

**Environmental exposure controls**

|                     |   |
|---------------------|---|
| General information | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
|---------------------|---|

**9. Physical and chemical properties**

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

Form: Solid  
 Color: Light Black  
 Odor: Scented  
 Odor threshold: Not determined  
 pH-value: Not applicable.  
 Melting point/Melting range: > 46 °C  
 Boiling point/Boiling range: No information available  
 Flash point: No information available  
 Ignition temperature: No information available  
 Danger of explosion: Product does not present an explosion hazard.  
 Explosion limits:  
 Lower: No information available  
 Upper: No information available  
 Vapor pressure: No information available  
 Density at 20 °C: appr. 0.90 g/cm³  
 Bulk density at 20 °C: No information available  
 Solubility in / Miscibility with water: No information available  
 Viscosity: No information available  
 Dynamic: No information available.  
 Kinematic: No information available

**10. Stability and reactivity**

|  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | None  |
| <b>10.2 Chemical stability</b>                 | The product is chemically stable.                   |
| <b>10.3 Possibility of hazardous reactions</b> |   |
| Hazardous reactions                            | No decomposition if stored and applied as directed. |
| <b>10.4 Conditions to avoid</b>                |   |
| Conditions to avoid                            | no data available                                   |
| <b>10.5 Incompatible materials</b>             |   |
| Materials to avoid                             | no data available                                   |
| <b>10.6 Hazardous decomposition products</b>   |   |
| Hazardous decomposition products               | no data available                                   |
| Thermal decomposition                          | no data available                                   |

**11. Toxicological information**

**11.1 Information on toxicological effects**

|                                  |   |   |
|----------------------------------|---|---|
| <b>Acute orale toxicity</b>      | Estimated Acute toxicity Dosis mg/kg :  | 9383  |
| Method                           | Calculationmethod                       |   |
| <b>Acute inhalation toxicity</b> | Estimated Acute toxicity Dosis mg/ltr : |   |
| Method                           | Calculationmethod                       | No data is available on the product itself. |
| <b>Acute dermale toxicity</b>    | Estimated Acute toxicity Dosis mg/kg :  | 4284  |
| Method                           | Calculationmethod                       |   |

**Acute toxicity (other routes of administration)**

|   |  |
|---|--|
|   | No data is available on the product itself.    |
| <b>Skin corrosion/irritation</b>                          |  |
| Skin irritation   | May cause skin irritation and / or dermatitis. |
| <b>Serious eye damage/eye irritation</b>                  |  |
| Eye irritation  | No data is available on the product itself.    |
| <b>Serious eye damage/eye irritation</b>                  |  |
| Eye irritation  | May cause irreversible eye damage.             |
| <b>Respiratory or skin sensitization</b>                  |  |
| Sensitisation   | No data is available on the product itself.    |
| <b>Germ cell mutagenicity</b>                             |  |
| Germ cell mutagenicity                                    | No data is available on the product itself.    |
| <b>Carcinogenicity</b>                                    |  |
| Carcinogenicity   | No data is available on the product itself.    |
| <b>Reproductive toxicity</b>                              |  |
| Reproductive toxicity                                     | No data is available on the product itself.    |
| <b>Target Organ Systemic Toxicant - Single exposure</b>   |  |
| Target Organ Systemic Toxicant - Single exposure          | No data is available on the product itself.    |
| <b>Target Organ Systemic Toxicant - Repeated exposure</b> |  |
| Target Organ Systemic Toxicant - Repeated exposure        | No data is available on the product itself.    |
| <b>Aspiration hazard</b>                                  |  |
| Aspiration toxicity                                       | No data is available on the product itself.    |
| <b>Phototoxicity</b>                                      |  |
| Phototoxicity   | No data is available on the product itself.    |
| <b>Further information</b>                                | no data available                              |

**12. Ecological information**

**12.1 Toxicity**

|   |                   |
|---|-------------------|
| Toxicity to fish  | no data available |
| Toxicity to daphnia and other aquatic invertebrates.                    | no data available |
| Toxicity to algae   | no data available |
| Toxicity to bacteria  | no data available |
| Toxicity to fish (chronic toxicity)                                     | no data available |
| Toxicity to daphnia and other aquatic invertebrates. (Chronic toxicity) | no data available |
| Acute aquatic toxicity  | no data available |
| Chronic aquatic toxicity  | no data available |
| Soil toxicity   | no data available |
| Other environmentally relevant organisms                                | no data available |

**12.2 Persistence and degradability**

|                  |                   |
|------------------|-------------------|
| Biodegradability | no data available |
|------------------|-------------------|

**12.3 Bioaccumulative potential**

|                 |                   |
|-----------------|-------------------|
| Bioaccumulation | no data available |
|-----------------|-------------------|

**12.4 Mobility in soil**

|   |                   |
|---|-------------------|
| Mobility  | no data available |
| Distribution among environmental compartments     | no data available |
| Additional advice Environmental fate and pathways | no data available |
| Physico-chemical removability                     | no data available |

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

|                                       |                   |
|---------------------------------------|-------------------|
| Biochemical Oxygen Demand (BSB)       | no data available |
| Dissolved organic carbon (DOC)        | no data available |
| Chemical Oxygen Demand (CSB)          | no data available |
| Adsorbed organic bound halogens (AOX) | no data available |

Additional ecological information

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**13. Disposal considerations**

**13.1 Waste treatment methods**

Product The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging Empty remaining contents.

Dispose of as unused product.  
Do not re-use empty containers.  
Dispose of in accordance with local regulations.

**14. Transport information**

ADR/RID/AND Not regulated

IATA/ICAO Not regulated

IMDG Not regulated

**15. Regulatory information**

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

ABM Cat Water hazard class NL (ABM) Cat A2  
WGK WGK2

**15.2 Chemical Safety Assessment**

no data available

**16. Other information**

**Full text of H-Statements referred to under sections 2 and 3.**

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
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.  
H361 Suspected of damaging fertility or the unborn child <state specific effect if known><state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.  
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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.