# Linalool thyme vulgaris essential oil, Organic, Spain

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 12/4/2020 Revision date: 7/20/2022 Supersedes version of: 12/4/2020 Version: 2.0

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

### 1.1. Product identifier

| | |
|---|---|
| Product form | : Substance |
| Substance name | : Linalool thyme vulgaris essential oil, Organic, Spain |
| EC-No. | : 284-535-7 |
| CAS-No. | : 8007-46-3 |
| Product code | : 11639 |
| Type of product | : Essential oil |
| Product group | : Raw material |

### 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

#### 1.2.2. Uses advised against

No additional information available

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

SIRIUS SAS
57 Chemin de la Métairie Haute
81580 CAMBOUNET SUR LE SOR
France
T + 33 (0)5-32-09-11-72
contact@sirius-bio.com

### 1.4. Emergency telephone number

No additional information available

## 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 |
| Reproductive toxicity, Category 2 | H361 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 2 | H411 |

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

**Adverse physicochemical, human health and environmental effects**

Suspected of damaging fertility or the unborn child. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

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

Hazard pictograms (CLP) :

GHS05 GHS07 GHS08 GHS09

Signal word (CLP) : Danger

Contains : 1,8 Cineole, Alpha pinene, Alpha terpinene, Beta Caryophyllene, Beta Pinene, Camphor, Carvacrol, Citral (neral + geranial) *, Linalool *, Linalyl acetate, Gamma terpinene, Geraniol *, Geranyl acetate, Limonene, Nerol, Paracymene, Terpinolene, Thymol

Hazard statements (CLP) : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H361 - Suspected of damaging fertility or the unborn child.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P391 - Collect spillage.

### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : Linalool thyme vulgaris essential oil, Organic, Spain

CAS-No. : 8007-46-3

EC-No. : 284-535-7

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| Linalool * | CAS-No.: 78-70-6<br>EC-No.: 201-134-4<br>EC Index-No.: 603-235-00-2<br>REACH-no: 01-2119474016-42 | 25 – 80 | Skin Sens. 1B, H317 |
| Terpinen-4-ol | CAS-No.: 562-74-3<br>EC-No.: 209-235-5 | 1 – 20 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 |
| Myrcene | CAS-No.: 123-35-3<br>EC-No.: 204-622-5 | 1 – 20 | Asp. Tox. 1, H304<br>Eye Irrit. 2, H319<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411<br>Flam. Liq. 3, H226<br>Skin Irrit. 2, H315 |
| Alpha pinene | CAS-No.: 80-56-8<br>EC-No.: 201-291-9<br>REACH-no: 01-2119519223-49 | 1 – 10 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304 |
| Gamma terpinene | CAS-No.: 99-85-4<br>EC-No.: 202-794-6 | 1 – 10 | Repr. 2, H361<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |
| Alpha terpinene | CAS-No.: 99-86-5<br>EC-No.: 202-795-1 | < 5 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |
| Thymol | CAS-No.: 89-83-8<br>EC-No.: 201-944-8<br>EC Index-No.: 604-032-00-1 | < 5 | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Aquatic Chronic 2, H411 |
| Paracymene | CAS-No.: 99-87-6<br>EC-No.: 202-796-7<br>EC Index-No.: 601-094-00-1 | 1 – 5 | Repr. 2, H361<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>Acute Tox. 3 (Inhalation), H331 |
| Limonene | CAS-No.: 138-86-3<br>EC-No.: 227-813-5<br>EC Index-No.: 601-096-00-2<br>REACH-no: 01-2119529223-47 | 1 – 5 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| Borneol | CAS-No.: 507-70-0<br>EC-No.: 208-080-0 | 1 – 5 | Skin Irrit. 2, H315<br>Flam. Sol. 1, H228<br>Aquatic Chronic 2, H411 |
| 1,8 Cineole | CAS-No.: 470-82-6<br>EC-No.: 207-431-5 | 0.1 – 5 | Flam. Liq. 3, H226<br>Skin Sens. 1B, H317<br>Eye Irrit. 2, H319 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| Alpha terpineol | CAS-No.: 98-55-5<br>EC-No.: 202-680-6 | 1 – 5 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 |
| Terpinolene | CAS-No.: 586-62-9<br>EC-No.: 209-578-0 | 0.1 – 5 | Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>Skin Sens. 1B, H317 |
| Camphene | CAS-No.: 79-92-5<br>EC-No.: 201-234-8 | 0.1 – 5 | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| Camphor | CAS-No.: 76-22-2<br>EC-No.: 200-945-0 | 0.1 – 5 | STOT SE 2, H371<br>Skin Irrit. 2, H315<br>Flam. Sol. 2, H228<br>Eye Dam. 1, H318<br>Aquatic Chronic 2, H411<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation), H332 |
| Sabinene | CAS-No.: 3387-41-5<br>EC-No.: 222-212-4 | 0.1 – 5 | Acute Tox. 4 (Oral), H302 |
| Linalyl acetate | CAS-No.: 115-95-7<br>EC-No.: 204-116-4 | 0.1 – 5 | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317 |
| Beta Caryophyllene | CAS-No.: 87-44-5<br>EC-No.: 201-746-1 | 0.1 – 5 | Skin Sens. 1B, H317<br>Asp. Tox. 1, H304 |
| Beta Phellandrene | CAS-No.: 555-10-2<br>EC-No.: 209-081-9 | 0.1 – 1 | Asp. Tox. 1, H304<br>Flam. Liq. 3, H226 |
| Octene-1-ol-3 | CAS-No.: 3391-86-4<br>EC-No.: 222-226-0 | 0.1 – 1 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Aquatic Chronic 2, H411 |
| Alpha Phellandrene | CAS-No.: 99-83-2<br>EC-No.: 202-792-5 | 0.1 – 1 | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Aquatic Chronic 1, H410<br>Aquatic Acute 1, H400 |
| Geraniol * | CAS-No.: 106-24-1<br>EC-No.: 203-377-1<br>EC Index-No.: 603-241-00-5<br>REACH-no: 01-2119552430-49 | < 1 | Skin Sens. 1, H317<br>Aquatic Chronic 3, H412 |
| Nerol | CAS-No.: 106-25-2<br>EC-No.: 203-378-7<br>REACH-no: 01-2119983244-33 | 0.1 – 1 | Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Eye Irrit. 2, H319 |
| Trans linalool oxide | CAS-No.: 34995-77-2<br>EC-No.: 252-312-3 | 0.1 – 1 | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319 |
| Beta Pinene | CAS-No.: 127-91-3<br>EC-No.: 204-872-5 | < 1 | Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317 |
| Geranyl acetate | CAS-No.: 105-87-3<br>EC-No.: 203-341-5 | 0.1 – 1 | Skin Sens. 1B, H317<br>Skin Irrit. 2, H315<br>Aquatic Chronic 3, H412 |
| Citral (neral + geranial) * | CAS-No.: 5392-40-5<br>EC-No.: 226-394-6<br>EC Index-No.: 605-019-00-3<br>REACH-no: 01-2119462829-23 | < 1 | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317 |
| Terpenyl acetate | CAS-No.: 80-26-2<br>EC-No.: 201-265-7 | 0.1 – 1 | Aquatic Chronic 2, H411 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| Carvacrol | CAS-No.: 499-75-2<br>EC-No.: 207-889-6 | < 1 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317 |
| Caryophyllene oxide | CAS-No.: 1139-30-6<br>EC-No.: 214-519-7 | < 1 | Aquatic Chronic 2, H411 |
| 3 Octanol | CAS-No.: 589-98-0<br>EC-No.: 209-667-4 | < 1 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 |
| 3 Octanone | CAS-No.: 106-68-3<br>EC-No.: 203-423-0 | < 0.1 | Flam. Liq. 3, H226 |
| Citronellol * | CAS-No.: 106-22-9<br>EC-No.: 203-375-0<br>REACH-no: 01-2119453995-23 | < 0.1 | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317 |
| Eugenol | CAS-No.: 97-53-0<br>EC-No.: 202-589-1 | < 0.1 | Eye Irrit. 2, H319<br>Skin Sens. 1B, H317 |

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

### 3.2. Mixtures

Not established.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : 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 : 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 : Call a poison center or a doctor if you feel unwell.

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

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 : Water spray. Dry powder. Foam. Carbon dioxide.

### 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

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## 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. 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. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 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. Notify authorities if product enters sewers or public waters. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

### 6.4. Reference to other sections

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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. 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 | : Store locked up. Store in a well-ventilated place. Keep cool. |

### 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

| Camphor (76-22-2) | |
|---|---|
| **France - Occupational Exposure Limits** | |
| Local name | Camphre |
| VME (OEL TWA) | 12 mg/m³ |
| VME (OEL TWA) [ppm] | 2 ppm |
| Remark | Valeurs recommandées/admises |
| Regulatory reference | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016) |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 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 symbol(s):**

#### 8.2.2.1. Eye and face protection

**Eye protection:**

Safety glasses

#### 8.2.2.2. Skin protection

**Skin and body protection:**

Wear suitable protective clothing

**Hand protection:**

Protective gloves

#### 8.2.2.3. Respiratory protection

**Respiratory protection:**

[In case of inadequate ventilation] wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| Physical state | : Liquid |
| Colour | : Colourless to pale yellow liquid. |
| Appearance | : Liquid. |
| Odour | : Characteristic, aromatic, herbaceous, sweet. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : 190 °C Source: Oxford University |
| Flammability | : Non flammable. |
| Explosive limits | : Not available |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : 63 °C Source: Oxford University |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : Not available |
| Solubility | : Water: 437.4 mg/l 25℃Source: Quantitative Structure Activity Relation |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Partition coefficient n-octanol/water (Log Pow) | : 3.52 Source: Quantitative Structure Activity Relation |
| Vapour pressure | : Not available |
| Vapour pressure at 50 °C | : Not available |
| Density | : Not available |
| Relative density | : 0.894 |
| 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

| | |
|---|---|
| Refractive index | : 1.45 – 1.48 |

## 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

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 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

| Linalool thyme vulgaris essential oil, Organic, Spain (8007-46-3) | |
|---|---|
| LD50 oral rat | 2840 mg/kg Source: National Library of Medicine |
| LD50 oral | 2840 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg Source: National Library of Medicine |

| 1,8 Cineole (470-82-6) | |
|---|---|
| LD50 oral | 2480 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |

| 3 Octanone (106-68-3) | |
|---|---|
| LD50 oral | 5000 mg/kg bodyweight |

| Alpha pinene (80-56-8) | |
|---|---|
| LD50 oral | 3700 mg/kg bodyweight |
| LD50 dermal | > 5000 mg/kg bodyweight |

| Alpha terpinene (99-86-5) | |
|---|---|
| LD50 oral | 1680 mg/kg bodyweight |

| Alpha terpineol (98-55-5) | |
|---|---|
| LD50 oral rat | 4300 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2900 - 5700 |
| LD50 oral | 4300 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LD50 dermal rabbit | > 3000 mg/kg OECD 402 |

| Beta Pinene (127-91-3) | |
|---|---|
| LD50 oral rat | 300 – 2000 mg/kg OCDE 423 |
| LD50 dermal rat | > 2000 mg/kg |

| Borneol (507-70-0) | |
|---|---|
| LD50 oral | 2500 mg/kg bodyweight |

| Camphene (79-92-5) | |
|---|---|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: other:rat and mouse |
| LD50 oral | > 5000 mg/kg bodyweight Animal: mouse |
| LD50 dermal rat | > 2500 mg/kg bodyweight Animal: |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit |
| LC50 Inhalation - Rat | > 25 mg/l air Animal: |

| Camphor (76-22-2) | |
|---|---|
| LD50 oral | 1500 mg/kg bodyweight |

| Camphor (76-22-2) | |
|---|---|
| LC50 Inhalation - Rat | 0.5 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
| LC50 Inhalation - Rat (Dust/Mist) | 1.5 mg/l/4h |

| Carvacrol (499-75-2) | |
|---|---|
| LD50 oral | 810 mg/kg bodyweight |

| Citral (neral + geranial) * (5392-40-5) | |
|---|---|
| LD50 oral rat | ≈ 6800 mg/kg bodyweight Animal: rat |
| LD50 oral | 4960 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat |
| LD50 dermal | 2250 mg/kg bodyweight |

| Citronellol * (106-22-9) | |
|---|---|
| LD50 oral | 3450 mg/kg bodyweight |
| LD50 dermal | 2650 mg/kg bodyweight |

| Linalool * (78-70-6) | |
|---|---|
| LD50 oral rat | 2790 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2440 - 3180 |
| LD50 oral | 2790 mg/kg bodyweight |
| LD50 dermal rabbit | 5610 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 3578 - 8374 |
| LD50 dermal | 5610 mg/kg bodyweight |

| Eugenol (97-53-0) | |
|---|---|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) |
| LD50 oral | 1500 – 1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) |

| Gamma terpinene (99-85-4) | |
|---|---|
| LD50 oral | 3650 mg/kg bodyweight |

| Geraniol * (106-24-1) | |
|---|---|
| LD50 oral rat | 3600 mg/kg bodyweight Animal: rat, 95% CL: 2840 - 4570 |
| LD50 oral | 2100 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg bodyweight Animal: rabbit |
| LD50 dermal | > 5000 mg/kg bodyweight |

| Limonene (138-86-3) | |
|---|---|
| LD50 oral | 4400 mg/kg bodyweight |
| LD50 dermal | > 2000 mg/kg bodyweight |

| Nerol (106-25-2) | |
|---|---|
| LD50 oral | 4500 mg/kg bodyweight |
| LD50 dermal | > 5000 mg/kg bodyweight |

| Paracymene (99-87-6) | |
|---|---|
| LD50 oral | 4750 mg/kg bodyweight |
| LC50 Inhalation - Rat (Vapours) | 9.7 mg/l/4h |

| Terpinolene (586-62-9) | |
|---|---|
| LD50 oral | 3775 mg/kg bodyweight |
| LD50 dermal rabbit | > 4300 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

| Thymol (89-83-8) | |
|---|---|
| LD50 oral | 980 mg/kg bodyweight |

| Trans linalool oxide (34995-77-2) | |
|---|---|
| LD50 oral | 1140 mg/kg bodyweight |
| LD50 dermal | 2500 mg/kg bodyweight |

| Octene-1-ol-3 (3391-86-4) | |
|---|---|
| LD50 oral rat | 340 mg/kg Source: Registry of Toxic Effects of Chemical Substances |
| LD50 oral | 175 mg/kg bodyweight |
| LD50 dermal rabbit | 3300 mg/kg Source: Registry of Toxic Effects of Chemical Substances |
| LD50 dermal | 3300 mg/kg bodyweight |
| LC50 Inhalation - Rat (Dust/Mist) | 3.7 mg/l/4h |

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

| Citral (neral + geranial) * (5392-40-5) | |
|---|---|
| NOAEL (chronic, oral, animal/male, 2 years) | 60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: toxicity (migrated information) |

| Geraniol * (106-24-1) | |
|---|---|
| NOAEL (chronic, oral, animal/male, 2 years) | 60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other: |

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

| Alpha terpineol (98-55-5) | |
|---|---|
| NOAEL (animal/male, F0/P) | ≥ 750 mg/kg OECD 422 |
| NOAEL (animal/female, F0/P) | ≥ 750 mg/kg OECD 422 |

| Terpinolene (586-62-9) | |
|---|---|
| NOAEL (animal/male, F0/P) | 294.6 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| NOAEL (animal/female, F0/P) | 161.5 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

STOT-single exposure : Not classified

| Camphor (76-22-2) | |
|---|---|
| STOT-single exposure | May cause damage to organs. |

STOT-repeated exposure : Not classified

| 1,8 Cineole (470-82-6) | |
|---|---|
| NOAEL (oral, rat, 90 days) | 600 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:japanese Ministry of Economy Trade and Industry Guideline for 28 day repeat oral dose toxicity study., Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents), Guideline: EPA OPPTS 870.3150 (90-Day Oral Toxicity in Nonrodents) |

| Alpha terpineol (98-55-5) | |
|---|---|
| NOAEL (oral, rat, 90 days) | ≥ 314 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

| Camphor (76-22-2) | |
|---|---|
| NOAEL (dermal, rat/rabbit, 90 days) | 250 mg/kg bodyweight Animal: rat, Guideline: other:Food and Drug Administration (FDA) Good Laboratory Practice Regulations for Nonclinical Studies (GLP Guidelines) |

| Citral (neral + geranial) * (5392-40-5) | |
|---|---|
| LOAEC (inhalation, rat, gas, 90 days) | 68 ppm Animal: rat, Animal sex: female |
| NOAEL (oral, rat, 90 days) | 100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| NOAEC (inhalation, rat, gas, 90 days) | 34 ppm Animal: rat, Animal sex: female |
| NOAEL (subchronic, oral, animal/male, 90 days) | 60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

| Citronellol * (106-22-9) | |
|---|---|
| NOAEL (oral, rat, 90 days) | 2000 mg/kg bodyweight Animal: rat, Guideline: other:Specifications for the Conduct of Studies to Evaluate the Toxic and Carcinogenic Potential of Chemical, Biological, and Physical Agents in Laboratory Animals for the National Toxicology Program (NTP) |

| Linalool * (78-70-6) | |
|---|---|
| LOAEL (dermal, rat/rabbit, 90 days) | Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |

| Eugenol (97-53-0) | |
|---|---|
| NOAEL (subchronic, oral, animal/male, 90 days) | ≥ 900 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: other:OECD Guideline 451 (Carcinogenicity Studies) |
| NOAEL (subchronic, oral, animal/female, 90 days) | 450 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: other:OECD Guideline 451 (Carcinogenicity Studies) |

| Geraniol * (106-24-1) | |
|---|---|
| NOAEL (dermal, rat/rabbit, 90 days) | 300 mg/kg bodyweight Animal: rat, Guideline: other:, Guideline: other: |

Aspiration hazard : Not classified

| Linalool * (78-70-6) | |
|---|---|
| Viscosity, kinematic | 5.192 mm²/s |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic 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) : Toxic to aquatic life with long lasting effects.

Not rapidly degradable

| Linalool thyme vulgaris essential oil, Organic, Spain (8007-46-3) | |
|---|---|
| LC50 - Fish [1] | 16.1 mg/l Source: ECOTOX |
| EC50 96h - Algae [1] | 3.369 mg/l Source: Ecological Structure Activity Relationships |

| 1,8 Cineole (470-82-6) | |
|---|---|
| LC50 - Fish [1] | 57 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | > 100 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | > 74 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1] | > 74 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

| Alpha pinene (80-56-8) | |
|---|---|
| LC50 - Fish [1] | 0.28 mg/l |
| EC50 - Other aquatic organisms [1] | 1.44 mg/l waterflea |

| Alpha terpineol (98-55-5) | |
|---|---|
| LC50 - Fish [1] | 70 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |

| Alpha terpineol (98-55-5) | |
|---|---|
| EC50 - Crustacea [1] | 73 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | ≈ 68 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | ≈ 17 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

| Camphene (79-92-5) | |
|---|---|
| LC50 - Fish [1] | 0.72 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 0.72 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 1.75 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

| Camphor (76-22-2) | |
|---|---|
| LC50 - Fish [1] | 35 – 50 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| LC50 - Fish [2] | 110 mg/l Test organisms (species): Pimephales promelas |
| EC50 96h - Algae [1] | 6.951 mg/l Test organisms (species): |

| Citral (neral + geranial) * (5392-40-5) | |
|---|---|
| LC50 - Fish [1] | 6.78 mg/l Test organisms (species): Leuciscus idus |
| EC50 - Crustacea [1] | 6.8 mg/l Test organisms (species): Daphnia magna |
| EC50 - Other aquatic organisms [1] | 7 mg/l waterflea |
| EC50 - Other aquatic organisms [2] | 5 mg/l |
| EC50 72h - Algae [1] | 103.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

| Citronellol * (106-22-9) | |
|---|---|
| LC50 - Fish [1] | 10 mg/l |
| EC50 - Crustacea [1] | 17.48 mg/l Test organisms (species): Daphnia magna |
| EC50 - Other aquatic organisms [1] | 17.48 mg/l waterflea |
| EC50 - Other aquatic organisms [2] | 2.38 mg/l |
| EC50 72h - Algae [1] | 2.4 mg/l Test organisms (species): |

| Linalool * (78-70-6) | |
|---|---|
| LC50 - Fish [1] | 27.8 mg/l |
| EC50 - Crustacea [1] | 59 mg/l Test organisms (species): Daphnia magna |
| EC50 - Other aquatic organisms [1] | 20 mg/l waterflea |
| EC50 - Other aquatic organisms [2] | 88.3 mg/l |
| EC50 96h - Algae [1] | 88.3 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 96h - Algae [2] | 156.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

| Eugenol (97-53-0) | |
|---|---|
| LC50 - Fish [1] | 13 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 1.05 mg/l Test organisms (species): Daphnia magna |

| Geraniol * (106-24-1) | |
|---|---|
| LC50 - Fish [1] | ≈ 22 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 10.8 mg/l Test organisms (species): Daphnia magna |
| EC50 - Other aquatic organisms [1] | 10.8 mg/l waterflea |
| EC50 - Other aquatic organisms [2] | 13.1 mg/l |

| Geraniol * (106-24-1) | |
|---|---|
| EC50 72h - Algae [1] | 13.1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

| Limonene (138-86-3) | |
|---|---|
| LC50 - Fish [1] | 0.72 mg/l |
| EC50 - Other aquatic organisms [1] | 0.36 mg/l waterflea |

| Terpinolene (586-62-9) | |
|---|---|
| LC50 - Fish [1] | 0.805 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 0.634 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 0.692 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 0.302 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

| Octene-1-ol-3 (3391-86-4) | |
|---|---|
| LC50 - Fish [1] | 2.245 mg/l Source: Ecological Structure Activity Relationships |
| EC50 96h - Algae [1] | 10.566 mg/l Source: Ecological Structure Activity Relationships |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

| Linalool thyme vulgaris essential oil, Organic, Spain (8007-46-3) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 3.52 Source: Quantitative Structure Activity Relation |

| Alpha pinene (80-56-8) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 4.32 |

| Citral (neral + geranial) * (5392-40-5) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 2.8 |

| Citronellol * (106-22-9) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 3.1 |

| Linalool * (78-70-6) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 2.84 |

| Geraniol * (106-24-1) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 3.5 |

| Limonene (138-86-3) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 4.38 |

| Nerol (106-25-2) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 3.47 |

| Octene-1-ol-3 (3391-86-4) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 2.6 Source: Quantitative Structure Activity Relation |

### 12.4. Mobility in soil

| Octene-1-ol-3 (3391-86-4) | |
|---|---|
| Mobility in soil | 89.49 Source: Quantitative Structure Activity Relation |

### 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

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.1. UN number or ID number** | | | | |
| UN 3082 | UN 3082 | UN 3082 | UN 3082 | UN 3082 |
| **14.2. UN proper shipping name** | | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Linalool thyme vulgaris essential oil, Organic, Spain) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Linalool thyme vulgaris essential oil, Organic, Spain) | Environmentally hazardous substance, liquid, n.o.s. (Linalool thyme vulgaris essential oil, Organic, Spain) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Linalool thyme vulgaris essential oil, Organic, Spain) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Linalool thyme vulgaris essential oil, Organic, Spain) |
| **Transport document description** | | | | |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Linalool thyme vulgaris essential oil, Organic, Spain), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Linalool thyme vulgaris essential oil, Organic, Spain), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Linalool thyme vulgaris essential oil, Organic, Spain), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Linalool thyme vulgaris essential oil, Organic, Spain), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Linalool thyme vulgaris essential oil, Organic, Spain), 9, III |
| **14.3. Transport hazard class(es)** | | | | |
| 9 | 9 | 9 | 9 | 9 |
|  |  |  |  |  |
| **14.4. Packing group** | | | | |
| III | III | III | III | III |
| **14.5. Environmental hazards** | | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes<br>Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |
| No supplementary information available | | | | |

### 14.6. Special precautions for user

**Overland transport**

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5l

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T4

Portable tank and bulk container special provisions (ADR) : TP1, TP29

Tank code (ADR) : LGBV

Vehicle for tank carriage : AT

Transport category (ADR) : 3

Special provisions for carriage - Packages (ADR) : V12

| | |
|---|---|
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13 |
| Hazard identification number (Kemler No.) | : 90 |
| Orange plates | :   |
| Tunnel restriction code (ADR) | : - |

**Transport by sea**

| | |
|---|---|
| Special provisions (IMDG) | : 274, 335, 969 |
| Limited quantities (IMDG) | : 5 L |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : LP01, P001 |
| Special packing provisions (IMDG) | : PP1 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T4 |
| Tank special provisions (IMDG) | : TP1, TP29 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-F |
| Stowage category (IMDG) | : A |

**Air transport**

| | |
|---|---|
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y964 |
| PCA limited quantity max net quantity (IATA) | : 30kgG |
| PCA packing instructions (IATA) | : 964 |
| PCA max net quantity (IATA) | : 450L |
| CAO packing instructions (IATA) | : 964 |
| CAO max net quantity (IATA) | : 450L |
| Special provisions (IATA) | : A97, A158, A197, A215 |
| ERG code (IATA) | : 9L |

**Inland waterway transport**

| | |
|---|---|
| Classification code (ADN) | : M6 |
| Special provisions (ADN) | : 274, 335, 375, 601 |
| Limited quantities (ADN) | : 5 L |
| Excepted quantities (ADN) | : E1 |
| Carriage permitted (ADN) | : T |
| Equipment required (ADN) | : PP |
| Number of blue cones/lights (ADN) | : 0 |

**Rail transport**

| | |
|---|---|
| Classification code (RID) | : M6 |
| Special provisions (RID) | : 274, 335, 375, 601 |
| Limited quantities (RID) | : 5L |
| Excepted quantities (RID) | : E1 |
| Packing instructions (RID) | : P001, IBC03, LP01, R001 |
| Special packing provisions (RID) | : PP1 |
| Mixed packing provisions (RID) | : MP19 |
| Portable tank and bulk container instructions (RID) | : T4 |
| Portable tank and bulk container special provisions (RID) | : TP1, TP29 |
| Tank codes for RID tanks (RID) | : LGBV |
| Transport category (RID) | : 3 |
| Special provisions for carriage – Packages (RID) | : W12 |

| | |
|---|---|
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW31 |
| Colis express (express parcels) (RID) | : CE8 |
| Hazard identification number (RID) | : 90 |

### 14.7. Maritime transport in bulk according to IMO instruments

Not established.

## 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)**

No REACH Annex XVII restrictions

**REACH Annex XIV (Authorisation List)**

Linalool thyme vulgaris essential oil, Organic, Spain is not on the REACH Annex XIV List

**REACH Candidate List (SVHC)**

Linalool thyme vulgaris essential oil, Organic, Spain is not on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**

Linalool thyme vulgaris essential oil, Organic, Spain is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

**POP Regulation (Persistent Organic Pollutants)**

Linalool thyme vulgaris essential oil, Organic, Spain is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

**Ozone Regulation (1005/2009)**

Linalool thyme vulgaris essential oil, Organic, Spain is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

**Explosives Precursors Regulation (2019/1148)**

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

**Drug Precursors Regulation (273/2004)**

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 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

No additional information available

### 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 |

| Abbreviations and acronyms: | |
|---|---|
| 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) |
| 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 |

| Full text of H- and EUH-statements: | |
|---|---|
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| 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 |
| Flam. Sol. 1 | Flammable solids, Category 1 |
| Flam. Sol. 2 | Flammable solids, Category 2 |
| H226 | Flammable liquid and vapour. |
| H228 | Flammable solid. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |

| Full text of H- and EUH-statements: | |
|---|---|
| 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. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H371 | May cause damage to organs. |
| 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 |
| STOT SE 2 | Specific target organ toxicity – Single exposure, Category 2 |

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.