

# Rosemary (cineol) essential oil, Organic, all origins

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Issue date: 6/26/2019 Revision date: 6/12/2020 Supersedes: 4/21/2020 Version: 4.0

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

#### 1.1. Product identifier

|                 |                                                         |
|-----------------|---------------------------------------------------------|
| Product form    | : Substance                                             |
| Substance name  | : Rosemary (cineol) essential oil, Organic, all origins |
| EC-No.          | : 283-291-9                                             |
| CAS-No.         | : 8000-25-7                                             |
| Product code    | : 10396TOC                                              |
| 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, Professional use |
| Function or use category | : Cosmetics                        |

##### 1.2.2. Uses advised against

No additional information available

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

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

|                                                                   |      |
|-------------------------------------------------------------------|------|
| Flammable liquids, Category 3                                     | H226 |
| Skin corrosion/irritation, Category 2                             | H315 |
| Serious eye damage/eye irritation, Category 1                     | H318 |
| Skin sensitisation, Category 1                                    | H317 |
| Specific target organ toxicity — Single exposure, Category 2      | H371 |
| Hazardous to the aquatic environment — Chronic Hazard, Category 2 | H411 |
| Full text of H statements : see section 16                        |      |

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

Flammable liquid and vapour. May cause damage to organs. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. Causes serious eye damage.

#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS05

GHS07

GHS08

GHS09

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H371 - May cause damage to organs.  
H411 - Toxic to aquatic life with long lasting effects.

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### Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
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

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : Rosemary (cineol) essential oil, Organic, all origins  
CAS-No. : 8000-25-7  
EC-No. : 283-291-9

| Name               | Product identifier                                                                                     | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                             |
|--------------------|--------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1,8 Cineole        | (CAS-No.) 470-82-6<br>(EC-No.) 207-431-5                                                               | 25 – 80 | Flam. Liq. 3, H226<br>Skin Sens. 1B, H317                                                                                                                                   |
| Camphor            | (CAS-No.) 76-22-2<br>(EC-No.) 200-945-0                                                                | 5 – 20  | 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 |
| Alpha pinene       | (CAS-No.) 80-56-8<br>(EC-No.) 201-291-9<br>(REACH-no) 01-2119519223-49                                 | 5 – 20  | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304                                                                                        |
| Beta Pinene        | (CAS-No.) 127-91-3<br>(EC-No.) 204-872-5                                                               | 1 – 10  | 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                                   |
| Camphene           | (CAS-No.) 79-92-5<br>(EC-No.) 201-234-8                                                                | 1 – 10  | Flam. Sol. 2, H228<br>Eye Irrit. 2, H319<br>Aquatic Chronic 1, H410                                                                                                         |
| Borneol            | (CAS-No.) 507-70-0<br>(EC-No.) 208-080-0                                                               | 1 – 10  | Skin Irrit. 2, H315<br>Flam. Sol. 1, H228<br>Aquatic Chronic 2, H411                                                                                                        |
| Beta Caryophyllene | (CAS-No.) 87-44-5<br>(EC-No.) 201-746-1                                                                | 0.1 – 5 | Asp. Tox. 1, H304<br>Aquatic Chronic 4, H413<br>Skin Sens. 1B, H317                                                                                                         |
| Limonene           | (CAS-No.) 138-86-3<br>(EC-No.) 227-813-5<br>(EC Index-No.) 601-029-00-7<br>(REACH-no) 01-2119529223-47 | 1 – 5   | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                                         |
| Alpha terpineol    | (CAS-No.) 98-55-5<br>(EC-No.) 202-680-6                                                                | 1 – 5   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                                                                                                                                   |
| Paracymene         | (CAS-No.) 99-87-6<br>(EC-No.) 202-796-7                                                                | 0.1 – 5 | Repr. 2, H361<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411                                                                                         |
| 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  | 0.1 – 5 | Skin Sens. 1B, H317                                                                                                                                                         |

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|                     |                                                                         |         |                                                                                                                                                                             |
|---------------------|-------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Myrcene             | (CAS-No.) 123-35-3<br>(EC-No.) 204-622-5                                | 1 – 5   | 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                                    |
| Terpinen-4-ol       | (CAS-No.) 562-74-3<br>(EC-No.) 209-235-5                                | 0.1 – 5 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                                                                                                      |
| Gamma terpinene     | (CAS-No.) 99-85-4<br>(EC-No.) 202-794-6                                 | 0.1 – 5 | Repr. 2, H361<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304                                                                                                                    |
| 1-octen-3-ol        | (CAS-No.) 3391-86-4<br>(EC-No.) 222-226-0                               | < 1     | Acute Tox. 3 (Oral), H301<br>Acute Tox. 4<br>(Inhalation:dust,mist), H332                                                                                                   |
| Alpha terpinene     | (CAS-No.) 99-86-5<br>(EC-No.) 202-795-1                                 | 0.1 – 1 | Asp. Tox. 1, H304<br>Acute Tox. 4 (Oral), H302<br>Aquatic Chronic 2, H411<br>Flam. Liq. 3, H226                                                                             |
| Alpha Phellandrene  | (CAS-No.) 99-83-2<br>(EC-No.) 202-792-5                                 | 0.1 – 1 | Asp. Tox. 1, H304<br>Flam. Liq. 3, H226                                                                                                                                     |
| Terpinolene         | (CAS-No.) 586-62-9<br>(EC-No.) 209-578-0                                | 0.1 – 1 | Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>Skin Sens. 1B, H317                                                                                |
| Sabinene            | (CAS-No.) 3387-41-5<br>(EC-No.) 222-212-4                               | < 1     | Acute Tox. 4 (Oral), H302                                                                                                                                                   |
| Caryophyllene oxide | (CAS-No.) 1139-30-6<br>(EC-No.) 214-519-7                               | < 1     | Aquatic Chronic 2, H411                                                                                                                                                     |
| Delta 3-carene      | (CAS-No.) 13466-78-9<br>(EC-No.) 236-719-3                              | < 1     | Skin Sens. 1, H317<br>Skin Irrit. 2, H315<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Aquatic Chronic 1, H410<br>Aquatic Acute 1, H400<br>Acute Tox. 4 (Inhalation), H332 |
| Cis Beta Ocimene    | (CAS-No.) 3338-55-4<br>(EC-No.) 222-081-3                               | < 1     | Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411<br>Flam. Liq. 3, H226<br>Skin Irrit. 2, H315                                                          |
| Neral               | (CAS-No.) 106-26-3<br>(EC-No.) 203-379-2                                | < 1     | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317                                                                                                            |
| 3 Octanone          | (CAS-No.) 106-68-3<br>(EC-No.) 203-423-0                                | < 1     | Flam. Liq. 3, H226                                                                                                                                                          |
| Beta bisabolene     | (CAS-No.) 495-61-4                                                      | < 0.1   | Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317                                                                                                             |
| 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                                                                                                            |
| Geraniol *          | (CAS-No.) 106-24-1<br>(EC-No.) 203-377-1<br>(REACH-no) 01-2119552430-49 | < 0.1   | Skin Sens. 1B, H317<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318                                                                                                              |
| Eugenol             | (CAS-No.) 97-53-0<br>(EC-No.) 202-589-1                                 | < 0.1   | Eye Irrit. 2, H319<br>Skin Sens. 1B, H317                                                                                                                                   |
| Methyl eugenol      | (CAS-No.) 93-15-2<br>(EC-No.) 202-223-0                                 | < 0.1   | Acute Tox. 4 (Oral), H302<br>Carc. 2, H351<br>Muta. 2, H341                                                                                                                 |

Full text of H-statements: see section 16

### 3.2. Mixtures

Not established.

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### 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 | : Rinse skin with water/shower. Take off immediately all 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    | : Rinse mouth. 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  | : Eye irritation. 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

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Fire hazard                                      | : Flammable liquid and vapour. |
| 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. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

##### 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. |
| 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

|                    |                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------|
| Technical measures | : Ground/bond container and receiving equipment.                                               |
| Storage conditions | : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. |

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

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Camphor (76-22-2)

##### France - Occupational Exposure Limits

|                          |                                                              |
|--------------------------|--------------------------------------------------------------|
| Local name               | Camphre                                                      |
| VME (mg/m <sup>3</sup> ) | 12 mg/m <sup>3</sup>                                         |
| VME (ppm)                | 2 ppm                                                        |
| Note (FR)                | Valeurs recommandées/admises                                 |
| Regulatory reference     | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016) |

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

##### Hand protection:

Protective gloves

##### Eye protection:

Safety glasses

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

##### Personal protective equipment symbol(s):



##### 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. Clear yellow to greenish yellow.       |
| Odour                                      | : aromatic.<br>balsamic. cineol like. camphor odour. |
| Odour threshold                            | : No data available                                  |
| pH                                         | : No data available                                  |
| Relative evaporation rate (butylacetate=1) | : No data available                                  |
| Melting point                              | : Not applicable                                     |
| Freezing point                             | : No data available                                  |
| Boiling point                              | : No data available                                  |
| Flash point                                | : 43 °C                                              |
| Auto-ignition temperature                  | : No data available                                  |
| Decomposition temperature                  | : No data available                                  |
| Flammability (solid, gas)                  | : Not applicable                                     |
| Vapour pressure                            | : No data available                                  |
| Relative vapour density at 20 °C           | : No data available                                  |
| Relative density                           | : 0.907 – 0.92                                       |
| Solubility                                 | : No data available                                  |

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|                                                 |                     |
|-------------------------------------------------|---------------------|
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic                            | : No data available |
| Viscosity, dynamic                              | : No data available |
| Explosive properties                            | : No data available |
| Oxidising properties                            | : No data available |
| Explosive limits                                | : No data available |

### 9.2. Other information

|                  |                |
|------------------|----------------|
| Refractive index | : 1.464 – 1.47 |
|------------------|----------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour.

### 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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 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 toxicological effects

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

#### 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)) |
| ATE CLP (oral)  | 2480 mg/kg bodyweight                                                                                                                          |

#### 1-octen-3-ol (3391-86-4)

|                                           |                       |
|-------------------------------------------|-----------------------|
| LD50 oral                                 | 175 mg/kg bodyweight  |
| LD50 dermal                               | 3300 mg/kg bodyweight |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | 3.7 mg/l/4h           |
| ATE CLP (oral)                            | 175 mg/kg bodyweight  |
| ATE CLP (dermal)                          | 3300 mg/kg bodyweight |
| ATE CLP (dust,mist)                       | 3.7 mg/l/4h           |

#### 3 Octanone (106-68-3)

|                |                       |
|----------------|-----------------------|
| LD50 oral      | 5000 mg/kg bodyweight |
| ATE CLP (oral) | 5000 mg/kg bodyweight |

#### Alpha pinene (80-56-8)

|                |                         |
|----------------|-------------------------|
| LD50 oral      | 3700 mg/kg bodyweight   |
| LD50 dermal    | > 5000 mg/kg bodyweight |
| ATE CLP (oral) | 3700 mg/kg bodyweight   |

#### Alpha terpinene (99-86-5)

|           |                       |
|-----------|-----------------------|
| LD50 oral | 1680 mg/kg bodyweight |
|-----------|-----------------------|

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|                |                      |
|----------------|----------------------|
| ATE CLP (oral) | 500 mg/kg bodyweight |
|----------------|----------------------|

|                                  |                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Alpha terpineol (98-55-5)</b> |                                                                                                                               |
| 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                                                                                                         |

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

|                           |                       |
|---------------------------|-----------------------|
| <b>Borneol (507-70-0)</b> |                       |
| LD50 oral                 | 2500 mg/kg bodyweight |
| ATE CLP (oral)            | 2500 mg/kg bodyweight |

|                            |                                                     |
|----------------------------|-----------------------------------------------------|
| <b>Camphene (79-92-5)</b>  |                                                     |
| 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 (mg/l) | > 25 mg/l air Animal:                               |

|                                           |                                                                                     |
|-------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Camphor (76-22-2)</b>                  |                                                                                     |
| LD50 oral                                 | 1500 mg/kg bodyweight                                                               |
| LC50 inhalation rat (mg/l)                | 0.5 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | 1.5 mg/l/4h                                                                         |
| ATE CLP (oral)                            | 1500 mg/kg bodyweight                                                               |
| ATE CLP (gases)                           | 4500 ppmv/4h                                                                        |
| ATE CLP (vapours)                         | 11 mg/l/4h                                                                          |
| ATE CLP (dust,mist)                       | 1.5 mg/l/4h                                                                         |

|                                     |                       |
|-------------------------------------|-----------------------|
| <b>Cis Beta Ocimene (3338-55-4)</b> |                       |
| LD50 oral                           | 5000 mg/kg bodyweight |
| ATE CLP (oral)                      | 5000 mg/kg bodyweight |

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

|                                           |                       |
|-------------------------------------------|-----------------------|
| <b>Delta 3-carene (13466-78-9)</b>        |                       |
| LD50 oral                                 | 4800 mg/kg bodyweight |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | 1.5 mg/l/4h           |
| ATE CLP (oral)                            | 4800 mg/kg bodyweight |

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|                     |              |
|---------------------|--------------|
| ATE CLP (gases)     | 4500 ppmv/4h |
| ATE CLP (vapours)   | 11 mg/l/4h   |
| ATE CLP (dust,mist) | 1.5 mg/l/4h  |

### 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      | 3850 mg/kg bodyweight |
| ATE CLP (oral) | 3850 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                                |
| ATE CLP (oral)     | 2100 mg/kg bodyweight                                  |

### Limonene (138-86-3)

|                |                         |
|----------------|-------------------------|
| LD50 oral      | 4400 mg/kg bodyweight   |
| LD50 dermal    | > 2000 mg/kg bodyweight |
| ATE CLP (oral) | 4400 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                                                                                            |
| ATE CLP (oral)     | 2790 mg/kg bodyweight                                                                                            |
| ATE CLP (dermal)   | 5610 mg/kg bodyweight                                                                                            |

### Methyl eugenol (93-15-2)

|                |                       |
|----------------|-----------------------|
| LD50 oral      | 1180 mg/kg bodyweight |
| ATE CLP (oral) | 500 mg/kg bodyweight  |

### Neral (106-26-3)

|             |                       |
|-------------|-----------------------|
| LD50 dermal | 2250 mg/kg bodyweight |
|-------------|-----------------------|

### Paracymene (99-87-6)

|                |                       |
|----------------|-----------------------|
| LD50 oral      | 4750 mg/kg bodyweight |
| ATE CLP (oral) | 4750 mg/kg bodyweight |

# Rosemary (cineol) essential oil, Organic, all origins

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### Sabinene (3387-41-5)

|                |                      |
|----------------|----------------------|
| ATE CLP (oral) | 500 mg/kg bodyweight |
|----------------|----------------------|

### Terpinen-4-ol (562-74-3)

|                |                      |
|----------------|----------------------|
| ATE CLP (oral) | 500 mg/kg bodyweight |
|----------------|----------------------|

### 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) |
| ATE CLP (oral)     | 3775 mg/kg bodyweight                                                                         |

|                                   |                                        |
|-----------------------------------|----------------------------------------|
| 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                       |

### 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:Effect type: toxicity (migrated information) |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                       |                  |
|-----------------------|------------------|
| Reproductive toxicity | : Not classified |
|-----------------------|------------------|

### 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 | : 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) |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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| 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) |

| 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:OECD Guideline 421 (Reproduction/Developmental Toxicity Screening test), Guideline: other:EPA OPPTS 870.3550 (Reproduction/Developmental Toxicity Screening Test) |

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

Aspiration hazard : Not classified

## 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

| 1,8 Cineole (470-82-6) |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 fish 1            | 57 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)                                                    |
| EC50 Daphnia 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)                                                          |
| EC50 Daphnia 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 Daphnia 1     | 0.72 mg/l Test organisms (species): Daphnia magna                                  |

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|                    |                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 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):                                                  |

### Citronellol \* (106-22-9)

|                                |                                                    |
|--------------------------------|----------------------------------------------------|
| LC50 fish 1                    | 10 mg/l                                            |
| EC50 Daphnia 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):                 |

### Eugenol (97-53-0)

|                |                                                                                  |
|----------------|----------------------------------------------------------------------------------|
| LC50 fish 1    | 13 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 Daphnia 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 Daphnia 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                                                                                            |
| 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 |

### Linalool \* (78-70-6)

|                                |                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------|
| LC50 fish 1                    | 27.8 mg/l                                                                                             |
| EC50 Daphnia 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) |

### Terpinolene (586-62-9)

|                    |                                                                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 fish 1        | 0.805 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)                                                        |
| EC50 Daphnia 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) |

## 12.2. Persistence and degradability

No additional information available

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### 12.3. Bioaccumulative potential

#### Alpha pinene (80-56-8)

|                                                 |      |
|-------------------------------------------------|------|
| Partition coefficient n-octanol/water (Log Pow) | 4.32 |
|-------------------------------------------------|------|

#### Citronellol \* (106-22-9)

|                                                 |     |
|-------------------------------------------------|-----|
| Partition coefficient n-octanol/water (Log Pow) | 3.1 |
|-------------------------------------------------|-----|

#### 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 |
|-------------------------------------------------|------|

#### Linalool \* (78-70-6)

|                                                 |      |
|-------------------------------------------------|------|
| Partition coefficient n-octanol/water (Log Pow) | 2.84 |
|-------------------------------------------------|------|

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. 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.

Additional information : Flammable vapours may accumulate in the container.

## SECTION 14: Transport information

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

| ADR                                                                                 | IMDG                                                                                   | IATA                                                                                | ADN                                                                                  | RID                                                                                   |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>14.1. UN number</b>                                                              |                                                                                        |                                                                                     |                                                                                      |                                                                                       |
| UN 1169                                                                             | UN 1169                                                                                | UN 1169                                                                             | UN 1169                                                                              | UN 1169                                                                               |
| <b>14.2. UN proper shipping name</b>                                                |                                                                                        |                                                                                     |                                                                                      |                                                                                       |
| EXTRACTS, AROMATIC, LIQUID                                                          | EXTRACTS, AROMATIC, LIQUID                                                             | Extracts, aromatic, liquid                                                          | EXTRACTS, AROMATIC, LIQUID                                                           | EXTRACTS, AROMATIC, LIQUID                                                            |
| <b>Transport document description</b>                                               |                                                                                        |                                                                                     |                                                                                      |                                                                                       |
| UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS        | UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 1169 Extracts, aromatic, liquid, 3, III, ENVIRONMENTALLY HAZARDOUS               | UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS                | UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS                 |
| <b>14.3. Transport hazard class(es)</b>                                             |                                                                                        |                                                                                     |                                                                                      |                                                                                       |
| 3                                                                                   | 3                                                                                      | 3                                                                                   | 3                                                                                    | 3                                                                                     |
|  |     |  |  |  |
| <b>14.4. Packing group</b>                                                          |                                                                                        |                                                                                     |                                                                                      |                                                                                       |
| III                                                                                 | III                                                                                    | III                                                                                 | III                                                                                  | III                                                                                   |

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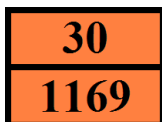
### 14.5. Environmental hazards

|                                        |                                                               |                                     |                                     |                                     |
|----------------------------------------|---------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 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)                                 | : F1                      |
| Special provisions (ADR)                                  | : 601                     |
| Limited quantities (ADR)                                  | : 5I                      |
| Excepted quantities (ADR)                                 | : E1                      |
| Packing instructions (ADR)                                | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR)                            | : MP19                    |
| Portable tank and bulk container instructions (ADR)       | : T2                      |
| Portable tank and bulk container special provisions (ADR) | : TP1                     |
| Tank code (ADR)                                           | : LGBF                    |
| Vehicle for tank carriage                                 | : FL                      |
| Transport category (ADR)                                  | : 3                       |
| Special provisions for carriage - Packages (ADR)          | : V12                     |
| Special provisions for carriage - Operation (ADR)         | : S2                      |
| Hazard identification number (Kemler No.)                 | : 30                      |
| Orange plates                                             | :                         |



|                               |       |
|-------------------------------|-------|
| Tunnel restriction code (ADR) | : D/E |
|-------------------------------|-------|

#### Transport by sea

|                                    |                                                                                                |
|------------------------------------|------------------------------------------------------------------------------------------------|
| Special provisions (IMDG)          | : 223, 955                                                                                     |
| Limited quantities (IMDG)          | : 5 L                                                                                          |
| Excepted quantities (IMDG)         | : E1                                                                                           |
| Packing instructions (IMDG)        | : P001, LP01                                                                                   |
| IBC packing instructions (IMDG)    | : IBC03                                                                                        |
| Tank instructions (IMDG)           | : T2                                                                                           |
| Tank special provisions (IMDG)     | : TP1                                                                                          |
| EmS-No. (Fire)                     | : F-E                                                                                          |
| EmS-No. (Spillage)                 | : S-D                                                                                          |
| Stowage category (IMDG)            | : A                                                                                            |
| Properties and observations (IMDG) | : Usually consist of alcoholic solutions. Miscibility with water depends upon the composition. |

#### Air transport

|                                              |        |
|----------------------------------------------|--------|
| PCA Excepted quantities (IATA)               | : E1   |
| PCA Limited quantities (IATA)                | : Y344 |
| PCA limited quantity max net quantity (IATA) | : 10L  |
| PCA packing instructions (IATA)              | : 355  |
| PCA max net quantity (IATA)                  | : 60L  |
| CAO packing instructions (IATA)              | : 366  |
| CAO max net quantity (IATA)                  | : 220L |
| Special provisions (IATA)                    | : A3   |
| ERG code (IATA)                              | : 3L   |

#### Inland waterway transport

|                           |             |
|---------------------------|-------------|
| Classification code (ADN) | : F1        |
| Special provisions (ADN)  | : 601       |
| Limited quantities (ADN)  | : 5 L       |
| Excepted quantities (ADN) | : E1        |
| Equipment required (ADN)  | : PP, EX, A |
| Ventilation (ADN)         | : VE01      |

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|                                                           |                           |
|-----------------------------------------------------------|---------------------------|
| Number of blue cones/lights (ADN)                         | : 0                       |
| <b>Rail transport</b>                                     |                           |
| Classification code (RID)                                 | : F1                      |
| Special provisions (RID)                                  | : 601                     |
| Limited quantities (RID)                                  | : 5L                      |
| Excepted quantities (RID)                                 | : E1                      |
| Packing instructions (RID)                                | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (RID)                            | : MP19                    |
| Portable tank and bulk container instructions (RID)       | : T2                      |
| Portable tank and bulk container special provisions (RID) | : TP1                     |
| Tank codes for RID tanks (RID)                            | : LGBF                    |
| Transport category (RID)                                  | : 3                       |
| Special provisions for carriage – Packages (RID)          | : W12                     |
| Colis express (express parcels) (RID)                     | : CE4                     |
| Hazard identification number (RID)                        | : 30                      |

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

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

No REACH Annex XVII restrictions

Rosemary (cineol) essential oil, Organic, all origins is not on the REACH Candidate List

Rosemary (cineol) essential oil, Organic, all origins is not on the REACH Annex XIV List

Rosemary (cineol) essential oil, Organic, all origins 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.

Rosemary (cineol) essential oil, Organic, all origins 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

#### 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                                                                         |
| BLV                         | Biological limit value                                                                          |
| CAS-No.                     | Chemical Abstract Service number                                                                |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| DMEL                        | Derived Minimal Effect level                                                                    |
| DNEL                        | Derived-No Effect Level                                                                         |
| EC50                        | Median effective concentration                                                                  |
| EC-No.                      | European Community number                                                                       |
| EN                          | European Standard                                                                               |
| 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                                                        |

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|       |                                                                                                   |
|-------|---------------------------------------------------------------------------------------------------|
| NOAEL | No-Observed Adverse Effect Level                                                                  |
| NOEC  | No-Observed Effect Concentration                                                                  |
| OEL   | Occupational Exposure Limit                                                                       |
| PBT   | Persistent Bioaccumulative Toxic                                                                  |
| PNEC  | Predicted No-Effect Concentration                                                                 |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID   | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| SDS   | Safety Data Sheet                                                                                 |
| vPvB  | Very Persistent and Very Bioaccumulative                                                          |
| WGK   | Water Hazard Class                                                                                |

### Full text of H- and EUH-statements:

|                                     |                                                                   |
|-------------------------------------|-------------------------------------------------------------------|
| 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 4                   | Hazardous to the aquatic environment — Chronic Hazard, Category 4 |
| Asp. Tox. 1                         | Aspiration hazard, Category 1                                     |
| Carc. 2                             | Carcinogenicity, Category 2                                       |
| 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                                      |
| Muta. 2                             | Germ cell mutagenicity, Category 2                                |
| Repr. 2                             | Reproductive toxicity, Category 2                                 |
| 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      |
| H226                                | Flammable liquid and vapour.                                      |
| H228                                | Flammable solid.                                                  |
| H301                                | Toxic if swallowed.                                               |
| H302                                | Harmful if swallowed.                                             |
| H304                                | May be fatal if swallowed and enters airways.                     |
| H315                                | Causes skin irritation.                                           |
| H317                                | May cause an allergic skin reaction.                              |
| H318                                | Causes serious eye damage.                                        |
| H319                                | Causes serious eye irritation.                                    |
| H332                                | Harmful if inhaled.                                               |
| H341                                | Suspected of causing genetic defects.                             |
| H351                                | Suspected of causing cancer.                                      |

# Rosemary (cineol) essential oil, Organic, all origins

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|      |                                                         |
|------|---------------------------------------------------------|
| 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.        |
| H413 | May cause long lasting harmful effects to aquatic life. |

SDS EU (REACH Annex II)

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.