

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 5/15/2024 Revision date: 7/1/2025 Supersedes version of: 6/18/2025 Version: 2.1

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

## **1.1. Product identifier**

| Product form           | : Substance (UVCB)         |
|------------------------|----------------------------|
| Substance name         | : EO Amyris                |
| IUPAC name             | : Amyris balsamifera, ext. |
| EC-No.                 | : 291-076-6                |
| CAS-No.                | : 90320-49-3               |
| REACH registration No. | : 01-2120743783-48         |
| Product code           | : 20111                    |
| Product group          | : Trade product            |

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

#### **Relevant identified uses**

Intended for general public Main use category Use of the substance/mixture

: Professional use,Consumer use : Fragrance raw material

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

De Hekserij Spoorstraat 57 8271 RG IJsselmuiden Nederland T +31 383 557 927 hekserij@hekserij.nl, www.hekserij.nl

#### 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 |
| Skin sensitisation, category 1B                                 | H317 |
| Hazardous to the aquatic environment – Chronic Hazard,          | H411 |
| Category 2  |      |

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

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

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

### 2.2. Label elements

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

| Hazard pictograms (CLP)        |   |
|--------------------------------|---|
|                                | GHS07 GHS09   |
| Signal word (CLP)              | : Warning   |
| Hazard statements (CLP)        | : H315 - Causes skin irritation.                        |
|                                | H317 - May cause an allergic skin reaction.             |
|                                | H411 - Toxic to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : P102 - Keep out of reach of children.                 |
| - ( )                          | P273 - Avoid release to the environment.                |
|                                |   |

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|               | P280 - Wear protective gloves, protective clothing.   |
|---------------|---|
|               | P302+P352 - IF ON SKIN: Wash with plenty of soap and water.   |
|               | P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  |
|               | P362+P364 - Take off contaminated clothing and wash it before reuse.  |
|               | P391 - Collect spillage.  |
|               | P501 - Dispose of contents and container to hazardous or special waste collection point, in<br>accordance with local, regional, national and/or international regulation. |
| Extra phrases | : Fragrance allergens (Cosmetics):  |
|               | BETA-CARYOPHYLLENE.   |

## 2.3. Other hazards

. . . . .

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

## **SECTION 3: Composition/information on ingredients**

| 5.1. Substances |              |
|-----------------|--------------|
| Substance type  | : UVCB       |
| Name            | : EO Amyris  |
| CAS-No.         | : 90320-49-3 |
| EC-No.          | : 291-076-6  |
|                 |              |

| Name               | Product identifier   | %     | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP]                        |
|--------------------|--|-------|--|
| EO Amyris          | CAS-No.: 90320-49-3<br>EC-No.: 291-076-6<br>REACH-no: 01-2120743783-<br>48 | 100   | See Section 2.1  |
| I-beta-Bisabolene  | CAS-No.: 495-61-4<br>EC-No.: 610-461-5                                     | 1 – 3 | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304                               |
| alpha-Zingiberene  | CAS-No.: 495-60-3<br>EC-No.: 207-804-2                                     | 1 – 3 | Skin Sens. 1B, H317  |
| trans-Nerolidol    | CAS-No.: 40716-66-3<br>EC-No.: 255-053-4                                   | 1 – 3 | Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| beta-Caryophyllene | CAS-No.: 87-44-5<br>EC-No.: 201-746-1                                      | < 1   | Skin Sens. 1B, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| trans-Farnesol     | CAS-No.: 106-28-5<br>EC-No.: 679-283-3                                     | < 1   | Skin Sens. 1, H317   |

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

| SECTION 4: First aid measures  |  |
|--|--|
| 4.1. Description of first aid measures   |  |
| First-aid measures general<br>First-aid measures after inhalation<br>First-aid measures after skin contact | <ul> <li>If you feel unwell, seek medical advice.</li> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.</li> </ul> |

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| First-aid measures after eye contact<br>First-aid measures after ingestion | <ul><li>Rinse eyes with water as a precaution.</li><li>Call a poison center or a doctor if you feel unwell.</li></ul>   |
|--|---|
| 4.2. Most important symptoms and effects                                   | , both acute and delayed  |
| Symptoms/effects after inhalation  | <ul> <li>Although no appropriate human or animal health effects data are known to exist, this<br/>material is expected to be an inhalation hazard.</li> </ul> |
| Symptoms/effects after skin contact  | : Irritation. May cause an allergic skin reaction.  |
| Symptoms/effects after eye contact   | : None under normal conditions.   |
| Symptoms/effects after ingestion   | : None under normal conditions.   |

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<br>Unsuitable extinguishing media                      | <ul><li>Water spray. Dry powder. Foam. Carbon dioxide.</li><li>Do not use a heavy water stream.</li></ul>   |  |
| 5.2. Special hazards arising from the substance or mixture                          |   |  |
| Fire hazard<br>Explosion hazard<br>Hazardous decomposition products in case of fire | <ul> <li>No fire hazard.</li> <li>No direct explosion hazard.</li> <li>Toxic fumes may be released.</li> </ul>  |  |
| 5.3. Advice for firefighters  |   |  |
| Firefighting instructions Protection during firefighting                            | <ul> <li>Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul> |  |

| SECTION 6: Accidental release measures |   |  |
|--|---|--|
| 6.1. Personal precautions, prote       | ctive equipment and emergency procedures  |  |
| General measures                       | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.<br>Absorb spillage to prevent material damage.                  |  |
| For non-emergency personnel            |   |  |
| Protective equipment                   | : Wear recommended personal protective equipment.   |  |
| Emergency procedures                   | : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.  |  |
| 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". |  |
| Emergency procedures                   | : Evacuate unnecessary personnel. Stop leak if safe to do so.   |  |
| 6.2. Environmental precautions         |   |  |
| Avoid release to the environment.      |   |  |
| 6.3. Methods and material for co       | entainment and cleaning up  |  |
| For containment                        | : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |  |
| Methods for cleaning up                | : Take up liquid spill into absorbent material.   |  |

### Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

Other information

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| SECTION 7: Handling and storage                                    |  |
|--|--|
| 7.1. Precautions for safe handling                                 |  |
| Additional hazards when processed<br>Precautions for safe handling | <ul> <li>Not expected to present a significant hazard under anticipated conditions of normal use.</li> <li>Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.</li> </ul> |
| 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                        | ng any incompatibilities   |
| Technical measures<br>Storage conditions<br>Packaging materials    | <ul> <li>Keep in a cool, well-ventilated place away from heat.</li> <li>Keep cool. Protect from sunlight.</li> <li>Store always product in container of same material as original container.</li> </ul>  |

### 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

## 8.2. Exposure controls

## Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

## Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment. Personal protective equipment symbol(s):



#### Eye and face protection

**Eye protection:** Safety glasses

Skin protection Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

#### **Respiratory protection**

#### **Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment

#### **Environmental exposure controls**

## Environmental exposure controls:

Avoid release to the environment.

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| SECTION 9: Physical and chemical properties                |   |  |  |  |
|--|---|--|--|--|
| 9.1. Information on basic physical and chemical properties |   |  |  |  |
| Physical state<br>Colour                                   | : Liquid<br>: Not available   |  |  |  |
| Odour  | : characteristic.   |  |  |  |
| Odour threshold  | : Not available   |  |  |  |
| Melting point<br>Freezing point                            | : -44 – -41.7 °C Atm. press.: 1043 hPa Decomposition: 'no' Sublimation: 'no'<br>: Not available |  |  |  |
| Boiling point  | : 280 – 293.3 °C Atm. press.: 1042 hPa  |  |  |  |
| Flammability   | : Non flammable.<br>: Not available   |  |  |  |
| Lower explosion limit<br>Upper explosion limit             | Not available   |  |  |  |
| Flash point  | : > 100 °C  |  |  |  |
| Auto-ignition temperature                                  | : 260 °C Atm. press.: 1.017 hPa   |  |  |  |
| Decomposition temperature                                  | : Not available   |  |  |  |
| pH   | : Not available<br>: Not available  |  |  |  |
| Viscosity, kinematic<br>Solubility                         | : Not available   |  |  |  |
| Partition coefficient n-octanol/water (Log Kow)            | : 4.81 – 6.99   |  |  |  |
| Vapour pressure  | : 1.53 Pa Temp.: 25 °C  |  |  |  |
| Vapour pressure at 50°C                                    | : Not available   |  |  |  |
| Density  | : 0.962 g/cm³ Type: 'density' Temp.: 20 °C  |  |  |  |
| Relative density   | : 0.962 Type: 'relative density' Temp.: 20 °C   |  |  |  |
| Relative vapour density at 20°C                            | : Not available   |  |  |  |
| Particle characteristics                                   | : Not applicable  |  |  |  |

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

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

#### 10.2. Chemical stability

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

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| EO Amyris (90320-49-3)            |  |
|-----------------------------------|--|
| LD50 oral rat                     | ≥ 5580 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1,5 -                                  |
| I-beta-Bisabolene (495-61-4)      |  |
| LD50 oral rat                     | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)   |
| beta-Caryophyllene (87-44-5)      |  |
| LD50 oral                         | > 5000 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: not<br>determinable due to absence of adverse toxic effects |
| Skin corrosion/irritation         | : Causes skin irritation.  |
| Serious eye damage/irritation     | : Not classified   |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction.   |
| Germ cell mutagenicity            | : Not classified   |
| Carcinogenicity                   | : Not classified   |
| Reproductive toxicity             | : Not classified   |
| STOT-single exposure              | : Not classified   |
| STOT-repeated exposure            | : Not classified   |
| spiration hazard                  | : Not classified   |

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: Not classified(acute): Toxic to aquatic life with long lasting effects.Hazardous to the aquatic environment, long-term: Toxic to aquatic life with long lasting effects.(chronic): Toxic to aquatic life with long lasting effects. |   |
| EO Amyris (90320-49-3)   |   |
| EC50 - Crustacea [1]   | 5.2 mg/l Test organisms (species):  |
| I-beta-Bisabolene (495-61-4)   |   |
| EC50 96h - Algae [1]       0.02 mg/l Test organisms (species): other:  |   |
| beta-Caryophyllene (87-44-5)   |   |
| EC50 - Crustacea [1]   | > 0.17 mg/l Test organisms (species): Daphnia magna   |
| EC50 72h - Algae [1]   | > 0.033 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names:<br>Raphidocelis subcapitata, Selenastrum capricornutum) |
| 12.2. Persistence and degradability  |   |
| EO Amyris (90320-49-3)   |   |
| Persistence and degradability  | Not rapidly degradable  |
| I-beta-Bisabolene (495-61-4)   |   |
| Persistence and degradability  | Not rapidly degradable  |
| alpha-Zingiberene (495-60-3)   |   |
| Persistence and degradability  | Not rapidly degradable  |

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| trans-Nerolidol (40716-66-3)                                |                        |  |
|---|------------------------|--|
| Persistence and degradability Not rapidly degradable        |                        |  |
| beta-Caryophyllene (87-44-5)                                |                        |  |
| Persistence and degradability                               | Not rapidly degradable |  |
| trans-Farnesol (106-28-5)                                   |                        |  |
| Persistence and degradability                               | Not rapidly degradable |  |
| 12.3. Bioaccumulative potential                             |                        |  |
| EO Amyris (90320-49-3)                                      |                        |  |
| Partition coefficient n-octanol/water (Log Kow) 4.81 – 6.99 |                        |  |
| 12.4. Mobility in soil                                      |                        |  |
| No additional information available                         |                        |  |
| 12.5. Results of PBT and vPvB assessment                    |                        |  |
| No additional information available                         |                        |  |
| 12.6. Endocrine disrupting properties                       |                        |  |
| No additional information available                         |                        |  |
| 12.7. Other adverse effects                                 |                        |  |
| No additional information available                         |                        |  |

| SECTION 13: Disposal considerations   | 5   |
|---|---|
| 13.1. Waste treatment methods   |   |
| Regional waste regulation<br>Waste treatment methods  | <ul> <li>Disposal must be done according to official regulations.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> </ul>       |
| Sewage disposal recommendations<br>Product/Packaging disposal recommendations<br>Additional information | <ul> <li>Disposal must be done according to official regulations.</li> <li>Disposal must be done according to official regulations.</li> <li>Do not re-use empty containers.</li> </ul> |

# **SECTION 14: Transport information**

| ADR  | IMDG   | ΙΑΤΑ  | ADN  | RID  |
|--|--|---|--|--|
| 14.1. UN number or ID n  | umber  |   |  |  |
| UN 3082  | UN 3082  | UN 3082   | UN 3082  | UN 3082  |
| 14.2. UN proper shipping   | g name   |   |  |  |
| ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S. (EO Amyris) | ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S. (EO Amyris) | Environmentally hazardous<br>substance, liquid, n.o.s.<br>(EO Amyris) | ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S. (EO Amyris) | ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S. (EO Amyris) |

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| ADR  | IMDG   | ΙΑΤΑ   | ADN   | RID   |
|--|--|--|---|---|
| Transport document descr   | iption   |  |   |   |
| UN 3082<br>ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S. (EO Amyris), 9, III,<br>(-)  | UN 3082<br>ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S. (EO Amyris), 9, III,<br>MARINE POLLUTANT   | UN 3082 Environmentally<br>hazardous substance,<br>liquid, n.o.s. (EO Amyris),<br>9, III | UN 3082<br>ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S. (EO Amyris), 9, III | UN 3082<br>ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S. (EO Amyris), 9, III |
| 14.3. Transport hazard o   | class(es)  |  |   |   |
| 9  | 9  | 9  | 9   | 9   |
|  |  |  |   |   |
| 14.4. Packing group  |  |  |   |   |
| III  | III  | III  | III   | III   |
| 14.5. Environmental haz  | ards   |  |   |   |
| Dangerous for the environment: Yes   | Dangerous for the<br>environment: Yes<br>Marine pollutant: Yes<br>EmS-No. (Fire): F-A<br>EmS-No. (Spillage): S-F   | Dangerous for the environment: Yes   | Dangerous for the environment: Yes  | Dangerous for the environment: Yes  |
| No supplementary informatio  | n available  |  | I   |   |
| 14.6. Special precautions  | - for upor   |  |   |   |
| Overland transport<br>Classification code (ADR)<br>Special provisions (ADR)<br>Limited quantities (ADR)<br>Excepted quantities (ADR)<br>Packing instructions (ADR)<br>Special packing provisions (AD<br>Mixed packing provisions (AD<br>Portable tank and bulk contain<br>Portable tank and bulk contain<br>(ADR)<br>Tank code (ADR)<br>Vehicle for tank carriage<br>Transport category (ADR)<br>Special provisions for carriage<br>Special provisions for carriage<br>and handling (ADR)<br>Hazard identification number (<br>Orange plates | : 5I<br>: E1<br>: P0<br>DR) : PP<br>R) : MF<br>ner instructions (ADR) : T4<br>ner special provisions : TP<br>: LG<br>: AT<br>: 3<br>e - Packages (ADR) : V1<br>e - Loading, unloading : CV | 4, 335, 375, 601, 650<br>01, IBC03, LP01, R001<br>1<br>19<br>1, TP29<br>BV               |   |   |
| Tunnel restriction code (ADR)<br>Transport by sea<br>Special provisions (IMDG)<br>Limited quantities (IMDG)<br>Excepted quantities (IMDG)<br>Packing instructions (IMDG)<br>Special packing provisions (IM   | : 274<br>: 5 L<br>: E1<br>: LP   | 4, 335, 375, 969<br>01, P001   |   |   |

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| IBC packing instructions (IMDG)                           | : IBC03                   |
|---|---------------------------|
| Tank instructions (IMDG)                                  | : T4                      |
| Tank special provisions (IMDG)                            | : TP1, TP29               |
| 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, 650 |
| Limited quantities (ADN)                                  | : 5L                      |
| 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, 650 |
| 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)  |                           |
| Colis express (express parcels) (RID)                     | : CE8                     |
| Hazard identification number (RID)                        | : 90                      |

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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## **SECTION 15: Regulatory information**

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

#### **EU-Regulations**

## **REACH Annex XVII (Restriction List)**

| EU restriction list (REACH Annex XVII) |  |   |
|--|--|---|
| Reference code                         | Applicable on  | Entry title or description  |
| 3(b)                                   | EO Amyris ; l-beta-<br>Bisabolene ; alpha-<br>Zingiberene ; trans-<br>Nerolidol ; beta-<br>Caryophyllene | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c)                                   | EO Amyris ; trans-<br>Nerolidol ; beta-<br>Caryophyllene   | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1   |

## **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

### REACH Candidate List (SVHC)

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

#### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

#### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

#### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

#### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

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

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

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

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

#### **National regulations**

### Netherlands

| SZW-lijst van kankerverwekkende stoffen            | : EO Amyris is listed         |
|--|-------------------------------|
| SZW-lijst van mutagene stoffen                     | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Borstvoeding | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen –              | : The substance is not listed |
| Vruchtbaarheid                                     |                               |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling | : The substance is not listed |
|  |                               |

#### 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 |  |
|   |  |

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| 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   |
| ΙΑΤΑ                        | 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   |
| РВТ                         | 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 disruptor   |

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

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Asp. Tox. 1                         | Aspiration hazard, Category 1                         |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2         |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                 |
| Skin Sens. 1                        | Skin sensitisation, Category 1                        |
| Skin Sens. 1B                       | Skin sensitisation, category 1B                       |
| H304                                | May be fatal if swallowed and enters airways.         |
| H315                                | Causes skin irritation.                               |
| H317                                | May cause an allergic skin reaction.                  |
| H319                                | Causes serious eye irritation.                        |
| 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.      |

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.