


## GREEN WOOD APPLE + CINNAMON

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** GREEN WOOD APPLE + CINNAMON  
**Other means of identification:**  
Non-applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Air freshener  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
MB ELIX sp. z oo sp.k.  
ul. Skarżyńskiego 26  
54-530 Wrocław - Poland  
Phone.: 0048 71 387 85 33 - Fax: 0048 71 722 29 68  
lab@elix.pl  
<https://airfresh24.com/>
- 1.4 Emergency telephone number:** 0048 71 387 85 33 (8.00-16.00)

### SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) No 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.  
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411  
Eye Irrit. 2: Eye irritation, Category 2, H319  
Skin Irrit. 2: Skin irritation, Category 2, H315  
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317
- 2.2 Label elements:**  
**CLP Regulation (EC) No 1272/2008** (*Labelling of packages where the contents do not exceed 125 ml*):  
**Warning**
- 
- Hazard statements:**  
H317 - May cause an allergic skin reaction.
- Precautionary statements:**  
P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment.
- Supplementary information:**  
Contains (r)-p-mentha-1,8-diene, 4-tert-butylcyclohexyl acetate, cinnamaldehyde, cinnamyl alcohol, citral, eugenol, hexyl salicylate, linalool.  
**UFI:** 84JF-9KJS-210Q-24QQ
- 2.3 Other hazards:**  
Product fails to meet PBT/vPvB criteria

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substance:**  
Non-applicable
- 3.2 Mixture:**  
**Chemical description:** Mixture composed of chemical products



















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**GREEN WOOD APPLE + CINNAMON**

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification  | Chemical name/Classification   | Concentration   |
|---|--|---|
| CAS: 34590-94-8<br>EC: 252-104-2<br>Index: Non-applicable<br>REACH: 01-2119450011-60-XXXX | <b>Dipropylene Glycol Methyl Ether<sup>(1)</sup></b><br>Regulation 1272/2008<br>Not classified   | 25 - <30 %  |
| CAS: 56539-66-3<br>EC: 260-252-4<br>Index: Non-applicable<br>REACH: 01-2119976333-33-XXXX | <b>3-methoxy-3-methylbutan-1-ol<sup>(2)</sup></b><br>Regulation 1272/2008<br>Eye Irrit. 2: H319 - Warning  | 25 - <30 %<br>   |
| CAS: 104-55-2<br>EC: 203-213-9<br>Index: Non-applicable<br>REACH: Non-applicable          | <b>cinnamaldehyde<sup>(2)</sup></b><br>Regulation 1272/2008<br>Acute Tox. 4: H312; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Warning  | 15 - <20 %<br>   |
| CAS: 105-53-3<br>EC: 203-305-9<br>Index: Non-applicable<br>REACH: 01-2119886972-18-XXXX   | <b>Diethyl malonate<sup>(2)</sup></b><br>Regulation 1272/2008<br>Eye Irrit. 2: H319 - Warning  | 7,5 - <10 %<br>  |
| CAS: 88-41-5<br>EC: 201-828-7<br>Index: Non-applicable<br>REACH: Non-applicable           | <b>2-tert-butylcyclohexyl acetate<sup>(2)</sup></b><br>Regulation 1272/2008<br>Aquatic Chronic 2: H411   | 3 - <4 %<br>   |
| CAS: 104-54-1<br>EC: 203-212-3<br>Index: Non-applicable<br>REACH: Non-applicable          | <b>cinnamyl alcohol<sup>(2)</sup></b><br>Regulation 1272/2008<br>Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning  | 2 - <3 %<br>  |
| CAS: 6259-76-3<br>EC: 228-408-6<br>Index: Non-applicable<br>REACH: Non-applicable         | <b>hexyl salicylate<sup>(2)</sup></b><br>Regulation 1272/2008<br>Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning  | 1 - <2 %<br><br>  |
| CAS: 78-70-6<br>EC: 201-134-4<br>Index: Non-applicable<br>REACH: Non-applicable           | <b>linalool<sup>(2)</sup></b><br>Regulation 1272/2008<br>Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning  | 1 - <2 %<br>   |
| CAS: 123-68-2<br>EC: 204-642-4<br>Index: Non-applicable<br>REACH: 01-2119983573-26-XXXX   | <b>Allyl hexanoate<sup>(2)</sup></b><br>Regulation 1272/2008<br>Acute Tox. 3: H301+H311+H331; Aquatic Acute 1: H400; Aquatic Chronic 3: H412 - Danger  | 0,5 - <0,75 %<br><br>   |
| CAS: 97-53-0<br>EC: 202-589-1<br>Index: Non-applicable<br>REACH: Non-applicable           | <b>eugenol<sup>(2)</sup></b><br>Regulation 1272/2008<br>Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning  | 0,25 - <0,5 %<br>  |
| CAS: 5989-27-5<br>EC: 227-813-5<br>Index: Non-applicable<br>REACH: Non-applicable         | <b>(r)-p-mentha-1,8-diene<sup>(2)</sup></b><br>Regulation 1272/2008<br>Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger | 0,25 - <0,5 %<br><br><br><br> |
| CAS: 106-30-9<br>EC: 203-382-9<br>Index: Non-applicable<br>REACH: 01-2120104876-54-XXXX   | <b>Ethyl enantate<sup>(2)</sup></b><br>Regulation 1272/2008<br>Aquatic Acute 1: H400; Aquatic Chronic 3: H412 - Warning  | 0,25 - <0,5 %<br>  |
| CAS: 5392-40-5<br>EC: 226-394-6<br>Index: 605-019-00-3<br>REACH: Non-applicable           | <b>citral<sup>(2)</sup></b><br>Regulation 1272/2008<br>Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning   | 0,25 - <0,5 %<br>  |
| CAS: 32210-23-4<br>EC: 250-954-9<br>Index: Non-applicable<br>REACH: Non-applicable        | <b>4-tert-butylcyclohexyl acetate<sup>(2)</sup></b><br>Regulation 1272/2008<br>Skin Sens. 1B: H317 - Warning   | 0,25 - <0,5 %<br>  |

<sup>(1)</sup> Substance with a Union workplace exposure limit

<sup>(2)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

**SECTION 4: FIRST AID MEASURES**

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**GREEN WOOD APPLE + CINNAMON****SECTION 4: FIRST AID MEASURES (continued)****4.1 Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:**

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media:****Suitable extinguishing media:**

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

**Unsuitable extinguishing media:**

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

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**GREEN WOOD APPLE + CINNAMON**

**SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)**

**6.2 Environmental precautions:**

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

**6.3 Methods and material for containment and cleaning up:**

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

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

A.- Technical measures for storage

Minimum Temp.: 5 °C  
 Maximum Temp.: 35 °C  
 Maximum time: 36 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

| Identification   | Occupational exposure limits |        |                       |
|--|------------------------------|--------|-----------------------|
|  | IOELV (8h)                   | 50 ppm | 308 mg/m <sup>3</sup> |
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8 EC: 252-104-2 | IOELV (STEL)                 |        |                       |

**DNEL (Workers):**

**GREEN WOOD APPLE + CINNAMON**

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Identification  |            | Short exposure         |                | Long exposure           |                |
|---|------------|------------------------|----------------|-------------------------|----------------|
|   |            | Systemic               | Local          | Systemic                | Local          |
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8<br>EC: 252-104-2 | Oral       | Non-applicable         | Non-applicable | Non-applicable          | Non-applicable |
|   | Dermal     | Non-applicable         | Non-applicable | 283 mg/kg               | Non-applicable |
|   | Inhalation | Non-applicable         | Non-applicable | 308 mg/m <sup>3</sup>   | Non-applicable |
| 3-methoxy-3-methylbutan-1-ol<br>CAS: 56539-66-3<br>EC: 260-252-4    | Oral       | Non-applicable         | Non-applicable | Non-applicable          | Non-applicable |
|   | Dermal     | Non-applicable         | Non-applicable | 6,25 mg/kg              | Non-applicable |
|   | Inhalation | Non-applicable         | Non-applicable | 18 mg/m <sup>3</sup>    | Non-applicable |
| cinnamaldehyde<br>CAS: 104-55-2<br>EC: 203-213-9                    | Oral       | Non-applicable         | Non-applicable | Non-applicable          | Non-applicable |
|   | Dermal     | Non-applicable         | Non-applicable | 1,75 mg/kg              | Non-applicable |
|   | Inhalation | Non-applicable         | Non-applicable | 6,11 mg/m <sup>3</sup>  | Non-applicable |
| Diethyl malonate<br>CAS: 105-53-3<br>EC: 203-305-9                  | Oral       | Non-applicable         | Non-applicable | Non-applicable          | Non-applicable |
|   | Dermal     | Non-applicable         | Non-applicable | 1,213 mg/kg             | Non-applicable |
|   | Inhalation | Non-applicable         | Non-applicable | 8,468 mg/m <sup>3</sup> | Non-applicable |
| cinnamyl alcohol<br>CAS: 104-54-1<br>EC: 203-212-3                  | Oral       | Non-applicable         | Non-applicable | Non-applicable          | Non-applicable |
|   | Dermal     | Non-applicable         | Non-applicable | 0,749 mg/kg             | Non-applicable |
|   | Inhalation | Non-applicable         | Non-applicable | 2,64 mg/m <sup>3</sup>  | Non-applicable |
| hexyl salicylate<br>CAS: 6259-76-3<br>EC: 228-408-6                 | Oral       | Non-applicable         | Non-applicable | Non-applicable          | Non-applicable |
|   | Dermal     | Non-applicable         | Non-applicable | 6,4 mg/kg               | Non-applicable |
|   | Inhalation | Non-applicable         | Non-applicable | 1,7 mg/m <sup>3</sup>   | Non-applicable |
| linalool<br>CAS: 78-70-6<br>EC: 201-134-4                           | Oral       | Non-applicable         | Non-applicable | Non-applicable          | Non-applicable |
|   | Dermal     | 5 mg/kg                | Non-applicable | 2,5 mg/kg               | Non-applicable |
|   | Inhalation | 16,5 mg/m <sup>3</sup> | Non-applicable | 2,8 mg/m <sup>3</sup>   | Non-applicable |
| Allyl hexanoate<br>CAS: 123-68-2<br>EC: 204-642-4                   | Oral       | Non-applicable         | Non-applicable | Non-applicable          | Non-applicable |
|   | Dermal     | Non-applicable         | Non-applicable | 4,3 mg/kg               | Non-applicable |
|   | Inhalation | Non-applicable         | Non-applicable | 15 mg/m <sup>3</sup>    | Non-applicable |
| eugenol<br>CAS: 97-53-0<br>EC: 202-589-1                            | Oral       | Non-applicable         | Non-applicable | Non-applicable          | Non-applicable |
|   | Dermal     | Non-applicable         | Non-applicable | 6 mg/kg                 | Non-applicable |
|   | Inhalation | Non-applicable         | Non-applicable | 21,2 mg/m <sup>3</sup>  | Non-applicable |
| (r)-p-mentha-1,8-diene<br>CAS: 5989-27-5<br>EC: 227-813-5           | Oral       | Non-applicable         | Non-applicable | Non-applicable          | Non-applicable |
|   | Dermal     | Non-applicable         | Non-applicable | 9,5 mg/kg               | Non-applicable |
|   | Inhalation | Non-applicable         | Non-applicable | 66,7 mg/m <sup>3</sup>  | Non-applicable |
| citral<br>CAS: 5392-40-5<br>EC: 226-394-6                           | Oral       | Non-applicable         | Non-applicable | Non-applicable          | Non-applicable |
|   | Dermal     | Non-applicable         | Non-applicable | 1,7 mg/kg               | Non-applicable |
|   | Inhalation | Non-applicable         | Non-applicable | 9 mg/m <sup>3</sup>     | Non-applicable |

**DNEL (General population):**

| Identification  |            | Short exposure |                | Long exposure           |                |
|---|------------|----------------|----------------|-------------------------|----------------|
|   |            | Systemic       | Local          | Systemic                | Local          |
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8<br>EC: 252-104-2 | Oral       | Non-applicable | Non-applicable | 36 mg/kg                | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 121 mg/kg               | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 37,2 mg/m <sup>3</sup>  | Non-applicable |
| 3-methoxy-3-methylbutan-1-ol<br>CAS: 56539-66-3<br>EC: 260-252-4    | Oral       | Non-applicable | Non-applicable | 2,5 mg/kg               | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 3,1 mg/kg               | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 4,4 mg/m <sup>3</sup>   | Non-applicable |
| cinnamaldehyde<br>CAS: 104-55-2<br>EC: 203-213-9                    | Oral       | Non-applicable | Non-applicable | 0,625 mg/kg             | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 0,625 mg/kg             | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 1,09 mg/m <sup>3</sup>  | Non-applicable |
| Diethyl malonate<br>CAS: 105-53-3<br>EC: 203-305-9                  | Oral       | Non-applicable | Non-applicable | Non-applicable          | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 0,607 mg/kg             | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 2,106 mg/m <sup>3</sup> | Non-applicable |
| cinnamyl alcohol<br>CAS: 104-54-1<br>EC: 203-212-3                  | Oral       | Non-applicable | Non-applicable | 0,268 mg/kg             | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 0,268 mg/kg             | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 0,465 mg/m <sup>3</sup> | Non-applicable |

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**GREEN WOOD APPLE + CINNAMON**
**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Identification  |            | Short exposure        |                | Long exposure          |                |
|---|------------|-----------------------|----------------|------------------------|----------------|
|   |            | Systemic              | Local          | Systemic               | Local          |
| hexyl salicylate<br>CAS: 6259-76-3<br>EC: 228-408-6       | Oral       | Non-applicable        | Non-applicable | 0,3 mg/kg              | Non-applicable |
|   | Dermal     | Non-applicable        | Non-applicable | 3,2 mg/kg              | Non-applicable |
|   | Inhalation | Non-applicable        | Non-applicable | 0,4 mg/m <sup>3</sup>  | Non-applicable |
| linalool<br>CAS: 78-70-6<br>EC: 201-134-4                 | Oral       | 1,2 mg/kg             | Non-applicable | 0,2 mg/kg              | Non-applicable |
|   | Dermal     | 2,5 mg/kg             | Non-applicable | 1,25 mg/kg             | Non-applicable |
|   | Inhalation | 4,1 mg/m <sup>3</sup> | Non-applicable | 0,7 mg/m <sup>3</sup>  | Non-applicable |
| Allyl hexanoate<br>CAS: 123-68-2<br>EC: 204-642-4         | Oral       | Non-applicable        | Non-applicable | 2,1 mg/kg              | Non-applicable |
|   | Dermal     | Non-applicable        | Non-applicable | 2,1 mg/kg              | Non-applicable |
|   | Inhalation | Non-applicable        | Non-applicable | 3,7 mg/m <sup>3</sup>  | Non-applicable |
| eugenol<br>CAS: 97-53-0<br>EC: 202-589-1                  | Oral       | Non-applicable        | Non-applicable | 3 mg/kg                | Non-applicable |
|   | Dermal     | Non-applicable        | Non-applicable | 3 mg/kg                | Non-applicable |
|   | Inhalation | Non-applicable        | Non-applicable | 5,22 mg/m <sup>3</sup> | Non-applicable |
| (r)-p-mentha-1,8-diene<br>CAS: 5989-27-5<br>EC: 227-813-5 | Oral       | Non-applicable        | Non-applicable | 4,8 mg/kg              | Non-applicable |
|   | Dermal     | Non-applicable        | Non-applicable | 4,8 mg/kg              | Non-applicable |
|   | Inhalation | Non-applicable        | Non-applicable | 16,6 mg/m <sup>3</sup> | Non-applicable |
| citral<br>CAS: 5392-40-5<br>EC: 226-394-6                 | Oral       | Non-applicable        | Non-applicable | 0,6 mg/kg              | Non-applicable |
|   | Dermal     | Non-applicable        | Non-applicable | 1 mg/kg                | Non-applicable |
|   | Inhalation | Non-applicable        | Non-applicable | 2,7 mg/m <sup>3</sup>  | Non-applicable |

**PNEC:**

| Identification  |              |                |                         |                |  |
|---|--------------|----------------|-------------------------|----------------|--|
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8<br>EC: 252-104-2 | STP          | 4168 mg/L      | Fresh water             | 19 mg/L        |  |
|   | Soil         | 2,74 mg/kg     | Marine water            | 1,9 mg/L       |  |
|   | Intermittent | 190 mg/L       | Sediment (Fresh water)  | 70,2 mg/kg     |  |
|   | Oral         | Non-applicable | Sediment (Marine water) | 7,02 mg/kg     |  |
| cinnamaldehyde<br>CAS: 104-55-2<br>EC: 203-213-9                    | STP          | 7,1 mg/L       | Fresh water             | 0,008 mg/L     |  |
|   | Soil         | 0,0156 mg/kg   | Marine water            | 0,0008 mg/L    |  |
|   | Intermittent | 0,0321 mg/L    | Sediment (Fresh water)  | 0,101 mg/kg    |  |
|   | Oral         | Non-applicable | Sediment (Marine water) | 0,0101 mg/kg   |  |
| Diethyl malonate<br>CAS: 105-53-3<br>EC: 203-305-9                  | STP          | 0,108 mg/L     | Fresh water             | 0,0118 mg/L    |  |
|   | Soil         | 0,008557 mg/kg | Marine water            | 0,00118 mg/L   |  |
|   | Intermittent | Non-applicable | Sediment (Fresh water)  | 4,62 mg/kg     |  |
|   | Oral         | Non-applicable | Sediment (Marine water) | 0,924 mg/kg    |  |
| cinnamyl alcohol<br>CAS: 104-54-1<br>EC: 203-212-3                  | STP          | 16,127 mg/L    | Fresh water             | 0,0077 mg/L    |  |
|   | Soil         | 0,019 mg/kg    | Marine water            | 0,00077 mg/L   |  |
|   | Intermittent | 0,077 mg/L     | Sediment (Fresh water)  | 0,118 mg/kg    |  |
|   | Oral         | Non-applicable | Sediment (Marine water) | 0,0118 mg/kg   |  |
| hexyl salicylate<br>CAS: 6259-76-3<br>EC: 228-408-6                 | STP          | 10 mg/L        | Fresh water             | 0 mg/L         |  |
|   | Soil         | 0,054 mg/kg    | Marine water            | 0 mg/L         |  |
|   | Intermittent | 0,004 mg/L     | Sediment (Fresh water)  | 0,272 mg/kg    |  |
|   | Oral         | Non-applicable | Sediment (Marine water) | 0,027 mg/kg    |  |
| linalool<br>CAS: 78-70-6<br>EC: 201-134-4                           | STP          | 10 mg/L        | Fresh water             | 0,2 mg/L       |  |
|   | Soil         | 0,327 mg/kg    | Marine water            | 0,02 mg/L      |  |
|   | Intermittent | 2 mg/L         | Sediment (Fresh water)  | 2,22 mg/kg     |  |
|   | Oral         | 0,0078 g/kg    | Sediment (Marine water) | 0,222 mg/kg    |  |
| Allyl hexanoate<br>CAS: 123-68-2<br>EC: 204-642-4                   | STP          | 10 mg/L        | Fresh water             | 0,000117 mg/L  |  |
|   | Soil         | 0,000825 mg/kg | Marine water            | 0,000012 mg/L  |  |
|   | Intermittent | 0,00117 mg/L   | Sediment (Fresh water)  | 0,00446 mg/kg  |  |
|   | Oral         | 0,04756 g/kg   | Sediment (Marine water) | 0,000446 mg/kg |  |
| eugenol<br>CAS: 97-53-0<br>EC: 202-589-1                            | STP          | Non-applicable | Fresh water             | 0,00113 mg/L   |  |
|   | Soil         | 0,015 mg/kg    | Marine water            | 0,000113 mg/L  |  |
|   | Intermittent | 0,0113 mg/L    | Sediment (Fresh water)  | 0,081 mg/kg    |  |
|   | Oral         | Non-applicable | Sediment (Marine water) | 0,008 mg/kg    |  |

- CONTINUED ON NEXT PAGE -

**GREEN WOOD APPLE + CINNAMON**

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Identification   |              |                |                         |              |
|--|--------------|----------------|-------------------------|--------------|
| (r)-p-mentha-1,8-diene<br>CAS: 5989-27-5<br>EC: 227-813-5          | STP          | 1,8 mg/L       | Fresh water             | 0,014 mg/L   |
|  | Soil         | 0,763 mg/kg    | Marine water            | 0,0014 mg/L  |
|  | Intermittent | Non-applicable | Sediment (Fresh water)  | 3,85 mg/kg   |
|  | Oral         | 0,133 g/kg     | Sediment (Marine water) | 0,385 mg/kg  |
| Ethyl enantate<br>CAS: 106-30-9<br>EC: 203-382-9                   | STP          | 10 mg/L        | Fresh water             | 0 mg/L       |
|  | Soil         | 0,006 mg/kg    | Marine water            | 0 mg/L       |
|  | Intermittent | 0,004 mg/L     | Sediment (Fresh water)  | 0,029 mg/kg  |
|  | Oral         | Non-applicable | Sediment (Marine water) | 0,003 mg/kg  |
| citral<br>CAS: 5392-40-5<br>EC: 226-394-6                          | STP          | 1,6 mg/L       | Fresh water             | 0,007 mg/L   |
|  | Soil         | 0,021 mg/kg    | Marine water            | 0,001 mg/L   |
|  | Intermittent | 0,068 mg/L     | Sediment (Fresh water)  | 0,125 mg/kg  |
|  | Oral         | Non-applicable | Sediment (Marine water) | 0,013 mg/kg  |
| 4-tert-butylcyclohexyl acetate<br>CAS: 32210-23-4<br>EC: 250-954-9 | STP          | 12,2 mg/L      | Fresh water             | 0,0053 mg/L  |
|  | Soil         | 0,42 mg/kg     | Marine water            | 0,00053 mg/L |
|  | Intermittent | 0,053 mg/L     | Sediment (Fresh water)  | 2,01 mg/kg   |
|  | Oral         | 0,06667 g/kg   | Sediment (Marine water) | 0,21 mg/kg   |

**8.2 Exposure controls:**



A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection



The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands



| Pictogram  | PPE                                   | Labelling   | CEN Standard | Remarks  |
|--|---------------------------------------|---|--------------|--|
| <br>Mandatory hand protection | Protective gloves against minor risks |  |              | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018 |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Ocular and facial protection

| Pictogram  | PPE   | Labelling   | CEN Standard                    | Remarks   |
|--|---|---|---------------------------------|---|
| <br>Mandatory face protection | Panoramic glasses against splash/projections. |  | EN 166:2002<br>EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Body protection



| Pictogram | PPE                  | Labelling   | CEN Standard      | Remarks   |
|-----------|----------------------|---|-------------------|---|
|           | Work clothing        |  |                   | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994. |
|           | Anti-slip work shoes |  | EN ISO 20347:2012 | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007                                 |

F.- Additional emergency measures

- CONTINUED ON NEXT PAGE -

**GREEN WOOD APPLE + CINNAMON**

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Emergency measure   | Standards                                       | Emergency measure  | Standards                                      |
|---|---|--|--|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

|                           |                                       |
|---------------------------|---------------------------------------|
| V.O.C. (Supply):          | 61,42 % weight                        |
| V.O.C. density at 20 °C:  | 609,23 kg/m <sup>3</sup> (609,23 g/L) |
| Average carbon number:    | 6,69                                  |
| Average molecular weight: | 137,92 g/mol                          |

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

For complete information see the product datasheet.

**Appearance:**

|                          |   |
|--------------------------|---|
| Physical state at 20 °C: | Liquid  |
| Appearance:              | Fluid   |
| Colour:                  |  Brown |
| Odour:                   | Pleasant  |
| Odour threshold:         | Non-applicable *  |

**Volatility:**

|  |                     |
|--|---------------------|
| Boiling point at atmospheric pressure: | Non-applicable *    |
| Vapour pressure at 20 °C:              | 54 Pa               |
| Vapour pressure at 50 °C:              | 402,66 Pa (0,4 kPa) |
| Evaporation rate at 20 °C:             | Non-applicable *    |

**Product description:**

|  |                         |
|--|-------------------------|
| Density at 20 °C:                            | 991,9 kg/m <sup>3</sup> |
| Relative density at 20 °C:                   | 0,992                   |
| Dynamic viscosity at 20 °C:                  | Non-applicable *        |
| Kinematic viscosity at 20 °C:                | Non-applicable *        |
| Kinematic viscosity at 40 °C:                | Non-applicable *        |
| Concentration:                               | Non-applicable *        |
| pH:  | Non-applicable *        |
| Vapour density at 20 °C:                     | Non-applicable *        |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable *        |
| Solubility in water at 20 °C:                |                         |
| Solubility properties:                       | Non-applicable *        |
| Decomposition temperature:                   | Non-applicable *        |
| Melting point/freezing point:                | Non-applicable *        |
| Explosive properties:                        | Non-applicable *        |
| Oxidising properties:                        | Non-applicable *        |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**GREEN WOOD APPLE + CINNAMON**

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

**Flammability:**

|                            |                        |
|----------------------------|------------------------|
| Flash Point:               | Non Flammable (>60 °C) |
| Heat of combustion:        | Non-applicable *       |
| Flammability (solid, gas): | Non-applicable *       |
| Autoignition temperature:  | Non-applicable *       |
| Lower flammability limit:  | Non-applicable *       |
| Upper flammability limit:  | Non-applicable *       |

**Explosive:**

|                        |                  |
|------------------------|------------------|
| Lower explosive limit: | Non-applicable * |
| Upper explosive limit: | Non-applicable * |

**9.2 Other information:**

|                           |                  |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index:         | Non-applicable * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight   | Humidity       |
|--------------------|------------------|-------------------------|------------|----------------|
| Not applicable     | Not applicable   | Precaution              | Precaution | Not applicable |

**10.5 Incompatible materials:**

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable        | Avoid alkalis or strong bases |

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

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**GREEN WOOD APPLE + CINNAMON**

**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

**B- Inhalation (acute effect):**

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**C- Contact with the skin and the eyes (acute effect):**

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

**D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):**

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.  
IARC: eugenol (3); (r)-p-mentha-1,8-diene (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**E- Sensitizing effects:**

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

**F- Specific target organ toxicity (STOT) - single exposure:**

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**G- Specific target organ toxicity (STOT)-repeated exposure:**

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**H- Aspiration hazard:**

Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

| Identification  | Acute toxicity  |                     | Genus  |
|---|-----------------|---------------------|--------|
|   | LD50 oral       | LD50 dermal         |        |
| cinnamaldehyde<br>CAS: 104-55-2<br>EC: 203-213-9                | LD50 oral       | 2100 mg/kg          | Rat    |
|   | LD50 dermal     | 1100 mg/kg          | Rat    |
|   | LC50 inhalation | Non-applicable      |        |
| linalool<br>CAS: 78-70-6<br>EC: 201-134-4                       | LD50 oral       | 3500 mg/kg          | Rat    |
|   | LD50 dermal     | 5610 mg/kg          | Rabbit |
|   | LC50 inhalation | Non-applicable      |        |
| Allyl hexanoate<br>CAS: 123-68-2<br>EC: 204-642-4               | LD50 oral       | 220 mg/kg           |        |
|   | LD50 dermal     | 300 mg/kg           |        |
|   | LC50 inhalation | 3 mg/L (4 h) (ATEi) |        |
| 2-tert-butylcyclohexyl acetate<br>CAS: 88-41-5<br>EC: 201-828-7 | LD50 oral       | 4600 mg/kg          | Rat    |
|   | LD50 dermal     | Non-applicable      |        |
|   | LC50 inhalation | Non-applicable      |        |
| cinnamyl alcohol<br>CAS: 104-54-1<br>EC: 203-212-3              | LD50 oral       | 2000 mg/kg          | Rat    |
|   | LD50 dermal     | Non-applicable      |        |
|   | LC50 inhalation | Non-applicable      |        |
| hexyl salicylate<br>CAS: 6259-76-3<br>EC: 228-408-6             | LD50 oral       | 5500 mg/kg          | Rat    |
|   | LD50 dermal     | Non-applicable      |        |
|   | LC50 inhalation | Non-applicable      |        |

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**GREEN WOOD APPLE + CINNAMON**
**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

| Identification   | Acute toxicity  |                | Genus  |
|--|-----------------|----------------|--------|
|  |                 |                |        |
| eugenol<br>CAS: 97-53-0<br>EC: 202-589-1                           | LD50 oral       | 2300 mg/kg     | Rat    |
|  | LD50 dermal     | Non-applicable |        |
|  | LC50 inhalation | Non-applicable |        |
| Ethyl enantate<br>CAS: 106-30-9<br>EC: 203-382-9                   | LD50 oral       | 34640 mg/kg    | Rat    |
|  | LD50 dermal     | 5500 mg/kg     | Rabbit |
|  | LC50 inhalation | Non-applicable |        |
| citral<br>CAS: 5392-40-5<br>EC: 226-394-6                          | LD50 oral       | 4950 mg/kg     | Rat    |
|  | LD50 dermal     | 2250 mg/kg     | Rabbit |
|  | LC50 inhalation | Non-applicable |        |
| 4-tert-butylcyclohexyl acetate<br>CAS: 32210-23-4<br>EC: 250-954-9 | LD50 oral       | 3370 mg/kg     |        |
|  | LD50 dermal     | Non-applicable |        |
|  | LC50 inhalation | Non-applicable |        |

**SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

**12.1 Toxicity:**

| Identification  | Acute toxicity |                      | Species                         | Genus      |
|---|----------------|----------------------|---------------------------------|------------|
|   |                |                      |                                 |            |
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8<br>EC: 252-104-2 | LC50           | 10000 mg/L (96 h)    | Pimephales promelas             | Fish       |
|   | EC50           | 1919 mg/L (48 h)     | Daphnia magna                   | Crustacean |
|   | EC50           | Non-applicable       |                                 |            |
| Diethyl malonate<br>CAS: 105-53-3<br>EC: 203-305-9                  | LC50           | 10.8 mg/L (96 h)     | Pimephales promelas             | Fish       |
|   | EC50           | Non-applicable       |                                 |            |
|   | EC50           | Non-applicable       |                                 |            |
| 2-tert-butylcyclohexyl acetate<br>CAS: 88-41-5<br>EC: 201-828-7     | LC50           | >1 - 10 mg/L (96 h)  |                                 | Fish       |
|   | EC50           | >1 - 10 mg/L (48 h)  |                                 | Crustacean |
|   | EC50           | >1 - 10 mg/L (72 h)  |                                 | Algae      |
| hexyl salicylate<br>CAS: 6259-76-3<br>EC: 228-408-6                 | LC50           | >0.1 - 1 mg/L (96 h) |                                 | Fish       |
|   | EC50           | >0.1 - 1 mg/L (48 h) |                                 | Crustacean |
|   | EC50           | >0.1 - 1 mg/L (72 h) |                                 | Algae      |
| Allyl hexanoate<br>CAS: 123-68-2<br>EC: 204-642-4                   | LC50           | >0.1 - 1 mg/L (96 h) |                                 | Fish       |
|   | EC50           | >0.1 - 1 mg/L (48 h) |                                 | Crustacean |
|   | EC50           | >0.1 - 1 mg/L (72 h) |                                 | Algae      |
| eugenol<br>CAS: 97-53-0<br>EC: 202-589-1                            | LC50           | 60.8 mg/L (96 h)     | Oncorhynchus mykiss             | Fish       |
|   | EC50           | Non-applicable       |                                 |            |
|   | EC50           | Non-applicable       |                                 |            |
| (r)-p-mentha-1,8-diene<br>CAS: 5989-27-5<br>EC: 227-813-5           | LC50           | >0.1 - 1 mg/L (96 h) |                                 | Fish       |
|   | EC50           | >0.1 - 1 mg/L (48 h) |                                 | Crustacean |
|   | EC50           | >0.1 - 1 mg/L (72 h) |                                 | Algae      |
| Ethyl enantate<br>CAS: 106-30-9<br>EC: 203-382-9                    | LC50           | 1.01 mg/L (96 h)     | Danio rerio                     | Fish       |
|   | EC50           | 26.3 mg/L (48 h)     | Daphnia magna                   | Crustacean |
|   | EC50           | 0.44 mg/L (72 h)     | Pseudokirchneriella subcapitata | Algae      |

**12.2 Persistence and degradability:**

| Identification  | Degradability |                | Biodegradability |                |
|---|---------------|----------------|------------------|----------------|
|   |               |                |                  |                |
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8<br>EC: 252-104-2 | BOD5          | Non-applicable | Concentration    | Non-applicable |
|   | COD           | 0 g O2/g       | Period           | 28 days        |
|   | BOD5/COD      | Non-applicable | % Biodegradable  | 73 %           |
| Diethyl malonate<br>CAS: 105-53-3<br>EC: 203-305-9                  | BOD5          | Non-applicable | Concentration    | 100 mg/L       |
|   | COD           | Non-applicable | Period           | 14 days        |
|   | BOD5/COD      | Non-applicable | % Biodegradable  | 86 %           |

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**GREEN WOOD APPLE + CINNAMON**

**SECTION 12: ECOLOGICAL INFORMATION (continued)**

| Identification                                     | Degradability |                | Biodegradability |          |
|--|---------------|----------------|------------------|----------|
| cinnamyl alcohol<br>CAS: 104-54-1<br>EC: 203-212-3 | BOD5          | Non-applicable | Concentration    | 4 mg/L   |
|  | COD           | Non-applicable | Period           | 28 days  |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 51,52 %  |
| linalool<br>CAS: 78-70-6<br>EC: 201-134-4          | BOD5          | Non-applicable | Concentration    | 100 mg/L |
|  | COD           | Non-applicable | Period           | 28 days  |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 90 %     |
| Ethyl enantate<br>CAS: 106-30-9<br>EC: 203-382-9   | BOD5          | Non-applicable | Concentration    | 100 mg/L |
|  | COD           | Non-applicable | Period           | 28 days  |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 73 %     |
| citral<br>CAS: 5392-40-5<br>EC: 226-394-6          | BOD5          | 0,56 g O2/g    | Concentration    | 100 mg/L |
|  | COD           | 1,99 g O2/g    | Period           | 28 days  |
|  | BOD5/COD      | 0,28           | % Biodegradable  | 92 %     |

**12.3 Bioaccumulative potential:**

| Identification  | Bioaccumulation potential |          |
|---|---------------------------|----------|
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8<br>EC: 252-104-2 | BCF                       | 1        |
|   | Pow Log                   | -0.06    |
|   | Potential                 | Low      |
| cinnamaldehyde<br>CAS: 104-55-2<br>EC: 203-213-9                    | BCF                       | 8        |
|   | Pow Log                   | 1.9      |
|   | Potential                 | Low      |
| cinnamyl alcohol<br>CAS: 104-54-1<br>EC: 203-212-3                  | BCF                       |          |
|   | Pow Log                   | 1.45     |
|   | Potential                 |          |
| linalool<br>CAS: 78-70-6<br>EC: 201-134-4                           | BCF                       | 39       |
|   | Pow Log                   | 2.97     |
|   | Potential                 | Moderate |
| eugenol<br>CAS: 97-53-0<br>EC: 202-589-1                            | BCF                       | 31       |
|   | Pow Log                   | 2.27     |
|   | Potential                 | Moderate |
| citral<br>CAS: 5392-40-5<br>EC: 226-394-6                           | BCF                       | 10       |
|   | Pow Log                   | 3.45     |
|   | Potential                 | Low      |

**12.4 Mobility in soil:**

| Identification                                     | Absorption/desorption |                      | Volatility |                                 |
|--|-----------------------|----------------------|------------|---------------------------------|
| cinnamaldehyde<br>CAS: 104-55-2<br>EC: 203-213-9   | Koc                   | 37                   | Henry      | 3,546E-1 Pa·m <sup>3</sup> /mol |
|  | Conclusion            | Very High            | Dry soil   | Yes                             |
|  | Surface tension       | Non-applicable       | Moist soil | Yes                             |
| Diethyl malonate<br>CAS: 105-53-3<br>EC: 203-305-9 | Koc                   | Non-applicable       | Henry      | Non-applicable                  |
|  | Conclusion            | Non-applicable       | Dry soil   | Non-applicable                  |
|  | Surface tension       | 3,133E-2 N/m (25 °C) | Moist soil | Non-applicable                  |
| cinnamyl alcohol<br>CAS: 104-54-1<br>EC: 203-212-3 | Koc                   | 116.94               | Henry      | Non-applicable                  |
|  | Conclusion            | High                 | Dry soil   | Non-applicable                  |
|  | Surface tension       | Non-applicable       | Moist soil | Non-applicable                  |
| Ethyl enantate<br>CAS: 106-30-9<br>EC: 203-382-9   | Koc                   | Non-applicable       | Henry      | 536 Pa·m <sup>3</sup> /mol      |
|  | Conclusion            | Non-applicable       | Dry soil   | Non-applicable                  |
|  | Surface tension       | Non-applicable       | Moist soil | Non-applicable                  |

**12.5 Results of PBT and vPvB assessment:**

Product fails to meet PBT/vPvB criteria

**12.6 Other adverse effects:**

Not described

**GREEN WOOD APPLE + CINNAMON**

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

| Code      | Description  | Waste class (Regulation (EU) No 1357/2014) |
|-----------|--|--|
| 07 01 04* | other organic solvents, washing liquids and mother liquors | Dangerous                                  |

**Type of waste (Regulation (EU) No 1357/2014):**

HP14 Ecotoxic, HP6 Acute Toxicity, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommend disposal down the drain. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to ADR 2021 and RID 2021:



- 14.1 UN number:** UN3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-tert-butylcyclohexyl acetate)
- 14.3 Transport hazard class(es):** 9
- Labels:** 9
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** Yes
- 14.6 Special precautions for user**
  - Special regulations: 274, 335, 375, 601
  - Tunnel restriction code: -
  - Physico-Chemical properties: see section 9
  - Limited quantities: 5 L
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by sea:**

With regard to IMDG 39-18:

- 14.1 UN number:** Non-applicable
- 14.2 UN proper shipping name:** Non-applicable
- 14.3 Transport hazard class(es):** Non-applicable
- Labels:** Non-applicable
- 14.4 Packing group:** Non-applicable
- 14.5 Marine pollutant:** No
- 14.6 Special precautions for user**
  - Special regulations: Non-applicable
  - EmS Codes:
  - Physico-Chemical properties: see section 9
  - Limited quantities: Non-applicable
  - Segregation group: Non-applicable
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2021:

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**GREEN WOOD APPLE + CINNAMON**

**SECTION 14: TRANSPORT INFORMATION (continued)**

|   |                |
|---|----------------|
| <b>14.1 UN number:</b>  | Non-applicable |
| <b>14.2 UN proper shipping name:</b>  | Non-applicable |
| <b>14.3 Transport hazard class(es):</b>   | Non-applicable |
| Labels:   | Non-applicable |
| <b>14.4 Packing group:</b>  | Non-applicable |
| <b>14.5 Environmental hazards:</b>  | No             |
| <b>14.6 Special precautions for user</b>  |                |
| Physico-Chemical properties:  | see section 9  |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable |

**SECTION 15: REGULATORY INFORMATION**

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable  
 Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable  
 Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable  
 Article 95, REGULATION (EU) No 528/2012: cinnamaldehyde (Product-type 2) ; geraniol (Product-type 18, 19)  
 REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Shall not be used in:  
 —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,  
 —tricks and jokes,  
 —games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION**

**Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830).

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

Non-applicable

**Texts of the legislative phrases mentioned in section 2:**

H315: Causes skin irritation.  
 H317: May cause an allergic skin reaction.  
 H319: Causes serious eye irritation.  
 H411: Toxic to aquatic life with long lasting effects.

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**CLP Regulation (EC) No 1272/2008:**

**GREEN WOOD APPLE + CINNAMON****SECTION 16: OTHER INFORMATION (continued)**

Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.  
Acute Tox. 4: H312 - Harmful in contact with skin.  
Aquatic Acute 1: H400 - Very toxic to aquatic life.  
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.  
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Flam. Liq. 3: H226 - Flammable liquid and vapour.  
Skin Irrit. 2: H315 - Causes skin irritation.  
Skin Sens. 1: H317 - May cause an allergic skin reaction.  
Skin Sens. 1A: H317 - May cause an allergic skin reaction.  
Skin Sens. 1B: H317 - May cause an allergic skin reaction.

**Advice related to training:**

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
LogPOW: Octanolwater partition coefficient  
Koc: Partition coefficient of organic carbon  
UFI: unique formula identifier

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -