according to Regulation (EC) No. 1907/2006 (REACH)

#### Oil of cinnamon, natural

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

#### **Product identifier** 1.1

Identification of the substance Oil of cinnamon, natural

Article number A432

Registration number (REACH) not relevant (mixture)

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

Relevant identified uses: Laboratory and analytical use

Laboratory chemical

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes

(household).

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

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment

sheet:

e-mail (competent person): sicherheit@carlroth.de

#### 1.4 **Emergency telephone number**

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Hazard class  | Cat-<br>egory | Hazard class and category | Hazard<br>statement |
|---------|---|---------------|---------------------------|---------------------|
| 3.1D    | Acute toxicity (dermal)                               | 4             | Acute Tox. 4              | H312                |
| 3.2     | Skin corrosion/irritation                             |               | Skin Irrit. 2             | H315                |
| 3.3     | Serious eye damage/eye irritation                     | 2             | Eye Irrit. 2              | H319                |
| 3.45    | S Skin sensitisation                                  |               | Skin Sens. 1              | H317                |
| 4.1C    | Hazardous to the aquatic environment - chronic hazard | 3             | Aquatic Chronic 3         | H412                |

For full text of abbreviations: see SECTION 16

#### The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

#### 2.2 **Label elements**

Page 1 / 20 Malta (en)

according to Regulation (EC) No. 1907/2006 (REACH)



#### Oil of cinnamon, natural

article number: A432

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

Signal word Warning

#### **Pictograms**

GHS07



#### **Hazard statements**

| H312 | Harmful in contact with skin                      |
|------|---|
| H315 | Causes skin irritation                            |
| H317 | May cause an allergic skin reaction               |
| H319 | Causes serious eye irritation                     |
| H412 | Harmful to aquatic life with long lasting effects |
|      |   |

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P280 Wear protective gloves/eye protection

#### **Precautionary statements - response**

P302+P352 IF ON SKIN: Wash with plenty of water

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

**Hazardous ingredients for labelling:** Cinnamaldehyde, Eugenol, DL-α-Pinene, β-Caryo-

phyllene, Linalool, DL-Limonene

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Symbol(s)



H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

P280 Wear protective gloves/eye protection. P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

contains: Cinnamaldehyde, Eugenol, DL-α-Pinene, β-Caryophyllene, Linalool, DL-Limonene

#### 2.3 Other hazards

This material is combustible, but will not ignite readily.

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Malta (en) Page 2 / 20

according to Regulation (EC) No. 1907/2006 (REACH)



article number: A432



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

### 3.1 Substances

not relevant (mixture)

#### 3.2 Mixtures

### **Description of the mixture**

| Name of sub-<br>stance       | Identifier  | Wt%       | Classification acc. to<br>GHS   | Pictograms     | Notes  |
|------------------------------|---|-----------|---|----------------|--------|
| Cinnamaldehyde               | CAS No<br>104-55-2<br>EC No<br>203-213-9                                | 50 – < 75 | Acute Tox. 4 / H312<br>Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>Skin Sens. 1 / H317<br>Aquatic Chronic 3 / H412 | <u>(1)</u>     |        |
|                              | REACH Reg. No<br>01-2119935242-<br>45-xxxx<br>01-2119950687-<br>24-xxxx |           |   |                |        |
| Eugenol                      | CAS No<br>97-53-0   | 10-<25    | Acute Tox. 4 / H302<br>Eye Irrit. 2 / H319<br>Skin Sens. 1 / H317   | <u>(!)</u>     |        |
|                              | EC No<br>202-589-1  |           | SKIII SCIIS. 1711317  | <b>~</b>       |        |
|                              | REACH Reg. No<br>01-2119971802-<br>33-xxxx                              |           |   |                |        |
| β-Caryophyllene              | CAS No<br>87-44-5   | < 10      | Skin Sens. 1 / H317<br>Asp. Tox. 1 / H304   | <u>(!)</u>     |        |
|                              | EC No<br>201-746-1  |           |   | <b>V V</b>     |        |
| Linalool                     | CAS No<br>78-70-6   | < 5       | Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>Skin Sens. 1B / H317   | <u>(!)</u>     | GHS-HC |
|                              | EC No<br>201-134-4  |           |   | •              |        |
|                              | Index No<br>603-235-00-2  |           |   |                |        |
|                              | REACH Reg. No<br>01-2119474016-<br>42-xxxx                              |           |   |                |        |
| Benzoic acid benzyl<br>ester | CAS No<br>120-51-4  | <1        | Acute Tox. 4 / H302<br>Aquatic Acute 1 / H400<br>Aquatic Chronic 2 / H411   | <b>⟨!⟩⟨½</b> ⟩ | GHS-HC |
|                              | EC No<br>204-402-9  |           | Aquade emonie 2711411   |                |        |
|                              | Index No<br>607-085-00-9  |           |   |                |        |
|                              | REACH Reg. No<br>01-2119976371-<br>33-xxxx                              |           |   |                |        |
|                              |   |           |   |                |        |
|                              |   |           |   |                |        |

Malta (en) Page 3 / 20

according to Regulation (EC) No. 1907/2006 (REACH)



article number: A432



| Name of sub-<br>stance | Identifier  | Wt% | Classification acc. to<br>GHS  | Pictograms | Notes          |
|------------------------|---|-----|--|------------|----------------|
| DL-Limonene            | CAS No<br>138-86-3<br>EC No<br>205-341-0<br>Index No<br>601-029-00-7                  | <1  | Flam. Liq. 3 / H226<br>Skin Irrit. 2 / H315<br>Skin Sens. 1 / H317<br>Aquatic Acute 1 / H400<br>Aquatic Chronic 1 / H410   | <u>**</u>  | C(a)<br>GHS-HC |
| DL-α-Pinene            | CAS No<br>80-56-8<br>EC No<br>201-291-9<br>REACH Reg. No<br>01-2119519223-<br>49-xxxx | <1  | Flam. Liq. 3 / H226<br>Acute Tox. 4 / H302<br>Skin Irrit. 2 / H315<br>Skin Sens. 1A / H317<br>Asp. Tox. 1 / H304<br>Aquatic Acute 1 / H400<br>Aquatic Chronic 1 / H410 |            |                |
| Coumarin               | CAS No<br>91-64-5<br>EC No<br>202-086-7   | <1  | Acute Tox. 3 / H301<br>Aquatic Chronic 3 / H412  |            |                |

### Notes

C(a): Mixture of isomers
GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

| Name of sub-<br>stance       | Identifier               | Specific Conc. Limits | M-Factors | ATE                                 | Exposure<br>route |
|------------------------------|--------------------------|-----------------------|-----------|-------------------------------------|-------------------|
| Cinnamaldehyde               | CAS No<br>104-55-2       | -                     | -         | 1.260 <sup>mg</sup> / <sub>kg</sub> | dermal            |
|                              | EC No<br>203-213-9       |                       |           |                                     |                   |
| Eugenol                      | CAS No<br>97-53-0        | -                     | -         | 1.930 <sup>mg</sup> / <sub>kg</sub> | oral              |
|                              | EC No<br>202-589-1       |                       |           |                                     |                   |
| Benzoic acid<br>benzyl ester | CAS No<br>120-51-4       | -                     | -         | 500 <sup>mg</sup> / <sub>kg</sub>   | oral              |
|                              | EC No<br>204-402-9       |                       |           |                                     |                   |
|                              | Index No<br>607-085-00-9 |                       |           |                                     |                   |
| Coumarin                     | CAS No<br>91-64-5        | -                     | -         | 293 <sup>mg</sup> / <sub>kg</sub>   | oral              |
|                              | EC No<br>202-086-7       |                       |           |                                     |                   |
| DL-α-Pinene                  | CAS No<br>80-56-8        | -                     | -         | 1.000 <sup>mg</sup> / <sub>kg</sub> | oral              |
|                              | EC No<br>201-291-9       |                       |           |                                     |                   |

For full text of abbreviations: see SECTION 16

Malta (en) Page 4 / 20

according to Regulation (EC) No. 1907/2006 (REACH)

#### Oil of cinnamon, natural

article number: A432



### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

#### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### **Following skin contact**

Rinse skin with water/shower. After contact with skin, wash immediately with plenty of water. In case of skin reactions, consult a physician. In case of skin irritation, consult a physician.

#### Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

#### Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Irritation, Allergic reactions

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

none

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

### Unsuitable extinguishing media

water jet

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

Combustible.

#### **Hazardous combustion products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), May produce toxic fumes of carbon monoxide if burning.

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

Malta (en) Page 5 / 20

according to Regulation (EC) No. 1907/2006 (REACH)



article number: A432



### **SECTION 6: Accidental release measures**

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



#### For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains.

#### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Provision of sufficient ventilation.

#### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

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

Keep container tightly closed.

### **Incompatible substances or mixtures**

Observe hints for combined storage.

#### Consideration of other advice:

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

### 7.3 Specific end use(s)

No information available.

Malta (en) Page 6 / 20

according to Regulation (EC) No. 1907/2006 (REACH)



article number: A432



### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **National limit values**

### **Occupational exposure limit values (Workplace Exposure Limits)**

Data are not available.

### Relevant DNELs of components of the mixture

| •                            |          |               |                        |  |                   |                               |
|------------------------------|----------|---------------|------------------------|--|-------------------|-------------------------------|
| Name of sub-<br>stance       | CAS No   | End-<br>point | Threshol<br>d level    | Protection<br>goal, route of<br>exposure | Used in           | Exposure time                 |
| Eugenol                      | 97-53-0  | DNEL          | 21,2 mg/<br>m³         | human, inhalat-<br>ory                   | worker (industry) | chronic - systemic<br>effects |
| Eugenol                      | 97-53-0  | DNEL          | 6 mg/kg<br>bw/day      | human, dermal                            | worker (industry) | chronic - systemic<br>effects |
| Linalool                     | 78-70-6  | DNEL          | 2,8 mg/m <sup>3</sup>  | human, inhalat-<br>ory                   | worker (industry) | chronic - systemic<br>effects |
| Linalool                     | 78-70-6  | DNEL          | 16,5 mg/<br>m³         | human, inhalat-<br>ory                   | worker (industry) | acute - systemic<br>effects   |
| Linalool                     | 78-70-6  | DNEL          | 2,5 mg/kg<br>bw/day    | human, dermal                            | worker (industry) | chronic - systemic<br>effects |
| Linalool                     | 78-70-6  | DNEL          | 5 mg/kg<br>bw/day      | human, dermal                            | worker (industry) | acute - systemic<br>effects   |
| Benzoic acid benzyl<br>ester | 120-51-4 | DNEL          | 5,1 mg/m <sup>3</sup>  | human, inhalat-<br>ory                   | worker (industry) | chronic - systemic<br>effects |
| Benzoic acid benzyl<br>ester | 120-51-4 | DNEL          | 102 mg/m <sup>3</sup>  | human, inhalat-<br>ory                   | worker (industry) | acute - systemic<br>effects   |
| Benzoic acid benzyl<br>ester | 120-51-4 | DNEL          | 2,6 mg/kg<br>bw/day    | human, dermal                            | worker (industry) | chronic - systemic<br>effects |
| DL-α-Pinene                  | 80-56-8  | DNEL          | 3,8 mg/m <sup>3</sup>  | human, inhalat-<br>ory                   | worker (industry) | chronic - systemic<br>effects |
| DL-α-Pinene                  | 80-56-8  | DNEL          | 0,542 mg/<br>kg bw/day | human, dermal                            | worker (industry) | chronic - systemic<br>effects |

### Relevant PNECs of components of the mixture

| Name of sub-<br>stance | CAS No   | End-<br>point | Threshol<br>d level   | Organism                   | Environmental compartment       | Exposure time                   |
|------------------------|--|---------------|---|----------------------------|---------------------------------|---------------------------------|
| Eugenol                | 97-53-0 PNEC 1,13 <sup>µg</sup> / <sub>I</sub> |               | aquatic organ-<br>isms  | freshwater                 | short-term (single<br>instance) |                                 |
| Eugenol                | 97-53-0  | PNEC          | 0,113 <sup>µg</sup> / <sub>l</sub> aquatic organisms marine water |                            | short-term (single<br>instance) |                                 |
| Eugenol                | 97-53-0  | PNEC          | 0,081 <sup>mg</sup> /<br>kg                                       | aquatic organ-<br>isms     | freshwater sedi-<br>ment        | short-term (single<br>instance) |
| Eugenol                | 97-53-0  | PNEC          | 0,008 <sup>mg</sup> /<br>kg                                       | aquatic organ-<br>isms     | marine sediment                 | short-term (single<br>instance) |
| Eugenol                | 97-53-0  | PNEC          | 0,015 <sup>mg</sup> /<br>kg                                       | terrestrial organ-<br>isms | soil                            | short-term (single<br>instance) |

Malta (en) Page 7 / 20

according to Regulation (EC) No. 1907/2006 (REACH)



article number: A432



| Relevant PNECs of components of the mixture |          |  |                                    |                                 |                                 |                                 |  |  |  |
|---|----------|--|------------------------------------|---------------------------------|---------------------------------|---------------------------------|--|--|--|
| Name of sub-<br>stance                      | CAS No   | End-<br>point  | Threshol<br>d level                | Organism                        | Environmental compartment       | Exposure time                   |  |  |  |
| Linalool                                    | 78-70-6  | PNEC   | 0,2 <sup>mg</sup> / <sub>l</sub>   | aquatic organ-<br>isms          | freshwater                      | short-term (single<br>instance) |  |  |  |
| Linalool                                    | 78-70-6  | PNEC   | 0,02 <sup>mg</sup> / <sub>l</sub>  | aquatic organ-<br>isms          | marine water                    | short-term (single instance)    |  |  |  |
| Linalool                                    | 78-70-6  | PNEC   | 10 <sup>mg</sup> / <sub>l</sub>    | aquatic organ-<br>isms          | sewage treatment<br>plant (STP) | short-term (single<br>instance) |  |  |  |
| Linalool                                    | 78-70-6  | PNEC   | 2,22 <sup>mg</sup> / <sub>kg</sub> | aquatic organ-<br>isms          | freshwater sedi-<br>ment        | short-term (single<br>instance) |  |  |  |
| Linalool                                    | 78-70-6  | PNEC   | 0,222 <sup>mg</sup> /<br>kg        | aquatic organ-<br>isms          | marine sediment                 | short-term (single<br>instance) |  |  |  |
| Linalool                                    | 78-70-6  | PNEC   | 0,327 <sup>mg</sup> /<br>kg        | terrestrial organ-<br>isms      | soil                            | short-term (single instance)    |  |  |  |
| Benzoic acid benzyl<br>ester                | 120-51-4 | PNEC   | 0,017 <sup>mg</sup> / <sub>l</sub> | aquatic organ-<br>isms          | freshwater                      | short-term (single<br>instance) |  |  |  |
| Benzoic acid benzyl<br>ester                | 120-51-4 | PNEC   | 0,002 <sup>mg</sup> / <sub>l</sub> | aquatic organ-<br>isms          | marine water                    | short-term (single instance)    |  |  |  |
| Benzoic acid benzyl<br>ester                | 120-51-4 | PNEC   | 100 <sup>mg</sup> / <sub>l</sub>   | aquatic organ-<br>isms          | sewage treatment<br>plant (STP) | short-term (single<br>instance) |  |  |  |
| Benzoic acid benzyl<br>ester                | 120-51-4 | PNEC   | 10,66 <sup>mg</sup> /              | aquatic organ-<br>isms          | freshwater sedi-<br>ment        | short-term (single<br>instance) |  |  |  |
| Benzoic acid benzyl<br>ester                | 120-51-4 | PNEC   | 1,07 <sup>mg</sup> / <sub>kg</sub> | aquatic organ-<br>isms          | marine sediment                 | short-term (single<br>instance) |  |  |  |
| Benzoic acid benzyl<br>ester                | 120-51-4 | PNEC   | 2,12 <sup>mg</sup> / <sub>kg</sub> | terrestrial organ-<br>isms      | soil                            | short-term (single instance)    |  |  |  |
| DL-α-Pinene                                 | 80-56-8  | PNEC   | 0,606 <sup>µg</sup> / <sub>I</sub> | aquatic organ-<br>isms          | freshwater                      | short-term (single instance)    |  |  |  |
| DL-α-Pinene                                 | 80-56-8  | PNEC   | 0,061 <sup>µg</sup> / <sub>l</sub> | aquatic organ-<br>isms          | marine water                    | short-term (single<br>instance) |  |  |  |
| DL-α-Pinene                                 | 80-56-8  | PNEC   | 0,2 <sup>mg</sup> / <sub>l</sub>   | aquatic organ-<br>isms          | sewage treatment<br>plant (STP) | short-term (single<br>instance) |  |  |  |
| DL-α-Pinene                                 | 80-56-8  | 80-56-8 PNEC 157 µg/kg aquatic organ-<br>isms freshwater sedi-<br>ment |                                    | short-term (single<br>instance) |                                 |                                 |  |  |  |
| DL-α-Pinene                                 | 80-56-8  | PNEC   | 15,7 <sup>µg</sup> / <sub>kg</sub> | aquatic organ-<br>isms          | marine sediment                 | short-term (single<br>instance) |  |  |  |
| DL-α-Pinene                                 | 80-56-8  | PNEC   | 31,7 <sup>µg</sup> / <sub>kg</sub> | terrestrial organ-<br>isms      | soil                            | short-term (single instance)    |  |  |  |

### 8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Malta (en) Page 8 / 20

according to Regulation (EC) No. 1907/2006 (REACH)

#### Oil of cinnamon, natural

article number: A432

#### Skin protection



#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### type of material

Butyl caoutchouc (butyl rubber)

#### material thickness

>0,3 mm

#### breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### **Respiratory protection**





Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

### **SECTION 9: Physical and chemical properties**

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

Physical state liquid

Colour clear - yellow - yellowish brown

Odour characteristic

Melting point/freezing point not determined

Boiling point or initial boiling point and boiling not determined

range

Flammability this material is combustible, but will not ignite

readily

Lower and upper explosion limit not determined

Malta (en) Page 9 / 20



according to Regulation (EC) No. 1907/2006 (REACH)



#### Oil of cinnamon, natural

article number: A432

Flash point >63 °C

Auto-ignition temperature not determined

Decomposition temperature not relevant

pH (value) not determined

Kinematic viscosity not determined

Solubility(ies)

Water solubility not determined

Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure not determined

Density 1,02 – 1,03 <sup>g</sup>/<sub>cm³</sub> at 20 °C

Particle characteristics No data available.

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard classes acc. to GHS classes: hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics:

Refractive index 1,58 – 1,6 (20 °C)

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

#### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

#### If heated

Vapours may form explosive mixtures with air.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

Malta (en) Page 10 / 20

according to Regulation (EC) No. 1907/2006 (REACH)

#### Oil of cinnamon, natural

article number: A432



There is no additional information.

#### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Test data are not available for the complete mixture.

#### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

#### **Acute toxicity**

Harmful in contact with skin.

#### Acute toxicity estimate (ATE) of components of the mixture

| Name of substance         | CAS No       | Exposure route | ATE                                 |
|---------------------------|--------------|----------------|-------------------------------------|
| Cinnamaldehyde            | 104-55-2     | dermal         | 1.260 <sup>mg</sup> / <sub>kg</sub> |
| Eugenol                   | 97-53-0 oral |                | 1.930 <sup>mg</sup> / <sub>kg</sub> |
| Benzoic acid benzyl ester | 120-51-4     | oral           | 500 <sup>mg</sup> / <sub>kg</sub>   |
| Coumarin                  | 91-64-5      | oral           | 293 <sup>mg</sup> / <sub>kg</sub>   |
| DL-α-Pinene               | 80-56-8      | oral           | 1.000 <sup>mg</sup> / <sub>kg</sub> |

#### Acute toxicity of components of the mixture

| Name of substance         | CAS No   | Exposure route | Endpoint | Value                                | Species |  |
|---------------------------|----------|----------------|----------|--------------------------------------|---------|--|
| Cinnamaldehyde            | 104-55-2 | oral           | LD50     | 2.220 <sup>mg</sup> / <sub>kg</sub>  | rat     |  |
| Cinnamaldehyde            | 104-55-2 | dermal         | LD50     | 1.260 <sup>mg</sup> / <sub>kg</sub>  | rabbit  |  |
| Eugenol                   | 97-53-0  | oral           | LD50     | 1.930 <sup>mg</sup> / <sub>kg</sub>  | rat     |  |
| β-Caryophyllene           | 87-44-5  | oral           | LD50     | >5.000 <sup>mg</sup> / <sub>kg</sub> | mouse   |  |
| Linalool                  | 78-70-6  | oral           | LD50     | 2.790 <sup>mg</sup> / <sub>kg</sub>  | rat     |  |
| Linalool                  | 78-70-6  | dermal         | LD50     | 5.610 <sup>mg</sup> / <sub>kg</sub>  | rabbit  |  |
| Benzoic acid benzyl ester | 120-51-4 | oral           | LD50     | >2.000 <sup>mg</sup> / <sub>kg</sub> | rat     |  |
| Coumarin                  | 91-64-5  | oral           | LD50     | 293 <sup>mg</sup> / <sub>kg</sub>    | rat     |  |
| DL-α-Pinene               | 80-56-8  | dermal         | LD50     | >2.000 <sup>mg</sup> / <sub>kg</sub> | rat     |  |
| DL-α-Pinene               | 80-56-8  | oral           | LD50     | 3.700 <sup>mg</sup> / <sub>kg</sub>  | rat     |  |
| DL-Limonene               | 138-86-3 | oral           | LD50     | 5.300 <sup>mg</sup> / <sub>kg</sub>  | rat     |  |

#### Skin corrosion/irritation

Malta (en) Page 11 / 20



according to Regulation (EC) No. 1907/2006 (REACH)

#### Oil of cinnamon, natural

article number: A432

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

#### Symptoms related to the physical, chemical and toxicological characteristics

#### If swallowed

Data are not available.

#### • If in eyes

Causes serious eye irritation

#### • If inhaled

Data are not available.

#### • If on skin

causes skin irritation, May produce an allergic reaction, pruritis, localised redness

#### Other information

none

#### 11.2 Endocrine disrupting properties

None of the ingredients are listed.

#### 11.3 Information on other hazards

There is no additional information.

Malta (en) Page 12 / 20

according to Regulation (EC) No. 1907/2006 (REACH)



article number: A432



### **SECTION 12: Ecological information**

### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

| I | Aquatic toxicit | ty (acute | ) of comi     | nonents of   | f the mixture  |
|---|-----------------|-----------|---------------|--------------|----------------|
| ı | Aquatic toxici  | Ly lacute | ; , OI COIIII | יט בזווטווטע | tile illixtule |

| Name of sub-<br>stance       | CAS No   | Endpoint | Value                               | Species                                  | Exposure<br>time |
|------------------------------|----------|----------|-------------------------------------|--|------------------|
| Cinnamaldehyde               | 104-55-2 | LC50     | 2,35 <sup>mg</sup> / <sub>l</sub>   | fish                                     | 96 h             |
| Cinnamaldehyde               | 104-55-2 | EC50     | 119,6 <sup>mg</sup> / <sub>l</sub>  | aquatic invertebrates                    | 48 h             |
| Eugenol                      | 97-53-0  | EC50     | 1,05 <sup>mg</sup> / <sub>l</sub>   | daphnia magna                            | 48 h             |
| Eugenol                      | 97-53-0  | ErC50    | 24 <sup>mg</sup> / <sub>l</sub>     | algae                                    | 72 h             |
| β-Caryophyllene              | 87-44-5  | EC50     | >0,17 <sup>mg</sup> / <sub>l</sub>  | daphnia magna                            | 48 h             |
| β-Caryophyllene              | 87-44-5  | ErC50    | >0,033 <sup>mg</sup> / <sub>l</sub> | algae                                    | 72 h             |
| Linalool                     | 78-70-6  | LC50     | 27,8 <sup>mg</sup> / <sub>l</sub>   | fish                                     | 96 h             |
| Linalool                     | 78-70-6  | EC50     | 59 <sup>mg</sup> / <sub>l</sub>     | aquatic invertebrates                    | 48 h             |
| Linalool                     | 78-70-6  | ErC50    | 156,7 <sup>mg</sup> / <sub>l</sub>  | algae                                    | 96 h             |
| Benzoic acid benzyl<br>ester | 120-51-4 | LC50     | 0,29 <sup>mg</sup> / <sub>l</sub>   | striped brill                            | 96 h             |
| Benzoic acid benzyl<br>ester | 120-51-4 | EC50     | 3,09 <sup>mg</sup> / <sub>l</sub>   | aquatic invertebrates                    | 48 h             |
| Benzoic acid benzyl<br>ester | 120-51-4 | ErC50    | 0,475 <sup>mg</sup> / <sub>l</sub>  | algae                                    | 72 h             |
| Coumarin                     | 91-64-5  | EC50     | 30,6 <sup>mg</sup> / <sub>l</sub>   | daphnia pulex                            | 48 h             |
| Coumarin                     | 91-64-5  | LC50     | 56 <sup>mg</sup> / <sub>l</sub>     | Poecilia reticulata                      | 96 h             |
| DL-α-Pinene                  | 80-56-8  | LC50     | 0,303 <sup>mg</sup> / <sub>l</sub>  | fish                                     | 96 h             |
| DL-α-Pinene                  | 80-56-8  | EC50     | 0,475 <sup>mg</sup> / <sub>l</sub>  | aquatic invertebrates                    | 48 h             |
| DL-Limonene                  | 138-86-3 | EC50     | 17 <sup>mg</sup> / <sub>l</sub>     | daphnia magna                            | 48 h             |
| DL-Limonene                  | 138-86-3 | LC50     | 80 <sup>mg</sup> / <sub>l</sub>     | rainbow trout (Onco-<br>rhynchus mykiss) | 96 h             |

### Aquatic toxicity (chronic) of components of the mixture

| Name of sub-<br>stance       | CAS No   | Endpoint | Value                                | Species               | Exposure<br>time |
|------------------------------|----------|----------|--------------------------------------|-----------------------|------------------|
| Cinnamaldehyde               | 104-55-2 | EC50     | 0,402 <sup>mg</sup> / <sub>l</sub>   | aquatic invertebrates | 21 d             |
| Linalool                     | 78-70-6  | EC50     | >100 <sup>mg</sup> / <sub>l</sub>    | microorganisms        | 30 min           |
| Benzoic acid benzyl<br>ester | 120-51-4 | LC50     | 11 <sup>mg</sup> / <sub>l</sub>      | aquatic invertebrates | 24 h             |
| Benzoic acid benzyl<br>ester | 120-51-4 | EC50     | >10.000 <sup>mg</sup> / <sub>l</sub> | microorganisms        | 3 h              |

Malta (en) Page 13 / 20

according to Regulation (EC) No. 1907/2006 (REACH)



article number: A432

### **Biodegradation**

Data are not available.

### 12.2 Process of degradability

### Degradability of components of the mixture

| Name of substance            | CAS No   | Process                      | Degrada-<br>tion rate | Time | Method | Source |
|------------------------------|----------|------------------------------|-----------------------|------|--------|--------|
| Cinnamalde-<br>hyde          | 104-55-2 | biotic/abiotic               | 100 %                 | 28 d |        |        |
| Cinnamalde-<br>hyde          | 104-55-2 | carbon dioxide<br>generation | 89 %                  | 7 d  |        | ECHA   |
| Eugenol                      | 97-53-0  | biotic/abiotic               | 82 %                  | 28 d |        |        |
| Eugenol                      | 97-53-0  | oxygen deple-<br>tion        | 50 %                  | 7 d  |        | ECHA   |
| β-Caryophyl-<br>lene         | 87-44-5  | oxygen deple-<br>tion        | 10 %                  | 28 d |        | ECHA   |
| Linalool                     | 78-70-6  | oxygen deple-<br>tion        | 40,9 %                | 5 d  |        | ECHA   |
| Benzoic acid<br>benzyl ester | 120-51-4 | biotic/abiotic               | 94 %                  | 28 d |        |        |
| Benzoic acid<br>benzyl ester | 120-51-4 | oxygen deple-<br>tion        | 94 %                  | 28 d |        | ECHA   |
| DL-α-Pinene                  | 80-56-8  | oxygen deple-<br>tion        | 68 %                  | 28 d |        | ECHA   |

### 12.3 Bioaccumulative potential

Data are not available.

### Bioaccumulative potential of components of the mixture

| Name of substance         | CAS No                                      | BCF   | Log KOW                   | BOD5/COD |
|---------------------------|---|-------|---------------------------|----------|
| Cinnamaldehyde            | 104-55-2                                    | 8     | 2,107 (25 °C)             |          |
| Eugenol                   | Eugenol 97-53-0 1,83 (pH value: 5,5, 30 °C) |       |                           |          |
| β-Caryophyllene           | 87-44-5                                     |       | 6,23 (pH value: 7, 25 °C) |          |
| Linalool                  | 78-70-6                                     |       | 2,9 (pH value: 7, 20 °C)  |          |
| Benzoic acid benzyl ester | 120-51-4                                    | 193,4 | 3,97 (25 °C)              |          |
| Coumarin                  | 91-64-5                                     |       | 1,39 (pH value: 7, 25 °C) |          |
| DL-α-Pinene               | 80-56-8                                     |       | 4,83                      |          |
| DL-Limonene               | 138-86-3                                    |       | 4,57                      |          |

### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

Malta (en) Page 14 / 20



according to Regulation (EC) No. 1907/2006 (REACH)

#### Oil of cinnamon, natural

article number: A432

#### 12.7 Other adverse effects

Data are not available.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

### **SECTION 14: Transport information**

| 14 1 | UN number or ID number   | not subject to transport regulations |
|------|--------------------------|--------------------------------------|
| 17.1 | ON HUHIDEI OF ID HUHIDEI |                                      |

**14.2 UN proper shipping name** not assigned

**14.3 Transport hazard class(es)** none

**14.4 Packing group** not assigned

**14.5 Environmental hazards** non-environmentally hazardous acc. to the dan-

gerous goods regulations

#### 14.6 Special precautions for user

There is no additional information.

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

The cargo is not intended to be carried in bulk.

#### 14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

not assigned

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

Malta (en) Page 15 / 20



according to Regulation (EC) No. 1907/2006 (REACH)

#### Oil of cinnamon, natural

article number: A432



### SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

#### Dangerous substances with restrictions (REACH, Annex XVII)

| Name of substance | Name acc. to inventory   | CAS No | Restriction | No |
|-------------------|--|--------|-------------|----|
| Oil of cinnamon   | this product meets the criteria for<br>classification in accordance with Reg-<br>ulation No 1272/2008/EC |        | R3          | 3  |
| DL-Limonene       | flammable / pyrophoric   |        | R40         | 40 |
| DL-α-Pinene       | flammable / pyrophoric   |        | R40         | 40 |

#### Legend

1. 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,
Articles not complying with paragraph 1 shall not be placed on the market.
Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume,

- can be used as fuel in decorative oil lamps for supply to the general public, and,
   present an aspiration hazard and are labelled with R65 or H304,
  4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation
- 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
  (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly

(a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage'; (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage'; (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.

6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.

7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission. those data available to the Commission.

R40 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration, - artificial snow and frost,

- 'whoopee' cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,decorative flakes and foams,
- artificial cobwebs.
- stink bombs.
- 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

- For professional users only.

  3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
- 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

#### List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the ingredients are listed. (Or Concentration of the substance in a mixture: <0.1 % Mass concentration)

Page 16 / 20 Malta (en)

according to Regulation (EC) No. 1907/2006 (REACH)



#### Oil of cinnamon , natural

article number: A432

#### **Seveso Directive**

| 2012/18/EU (Seveso III) |                                       |   |       |  |
|-------------------------|---------------------------------------|---|-------|--|
| No                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |  |
|                         | not assigned                          |   |       |  |

#### **Deco-Paint Directive (2004/42/EC)**

| VOC content | 25 %<br>257,5 <sup>g</sup> / <sub>I</sub> |
|-------------|---|
|             |   |

#### Directive on industrial emissions (VOCs, 2010/75/EU)

| VOC content | 5 %                              |
|-------------|----------------------------------|
| VOC content | 51,5 <sup>g</sup> / <sub>l</sub> |

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

#### **Water Framework Directive (WFD)**

### List of pollutants (WFD)

| Name of substance | Name acc. to inventory   | CAS No | Listed in | Remarks |
|-------------------|--|--------|-----------|---------|
| Linalool          | Substances and preparations, or<br>the breakdown products of such,<br>which have been proved to pos-<br>sess carcinogenic or mutagenic<br>properties or properties which<br>may affect steroidogenic, thyroid,<br>reproduction or other endocrine-<br>related functions in or via the<br>aquatic environment |        | A)        |         |

#### Legend

A) Indicative list of the main pollutants

Regulation 98/2013/EU on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors

none of the ingredients are listed

Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

Malta (en) Page 17 / 20

according to Regulation (EC) No. 1907/2006 (REACH)

#### Oil of cinnamon, natural

article number: A432



#### **National inventories**

| Country | Inventory  | Status                         |
|---------|------------|--------------------------------|
| AU      | AICS       | all ingredients are listed     |
| CA      | DSL        | all ingredients are listed     |
| CN      | IECSC      | all ingredients are listed     |
| EU      | ECSI       | all ingredients are listed     |
| EU      | REACH Reg. | all ingredients are listed     |
| JP      | CSCL-ENCS  | all ingredients are listed     |
| JP      | ISHA-ENCS  | not all ingredients are listed |
| KR      | KECI       | all ingredients are listed     |
| MX      | INSQ       | not all ingredients are listed |
| NZ      | NZIoC      | all ingredients are listed     |
| PH      | PICCS      | all ingredients are listed     |
| TR      | CICR       | not all ingredients are listed |
| TW      | TCSI       | all ingredients are listed     |
| US      | TSCA       | all ingredients are listed     |

Legend

AICS Australian Inventory of Chemical Substances
CICR Chemical Inventory and Control Regulation
CSCL-ENCS
DSL Domestic Substances List (DSL)
ECSI EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC Inventory of Existing Chemical Substances Produced or Imported in China INSQ Inventory of Chemical Substances
INVENTOR IN

**TSCA Toxic Substance Control Act** 

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

#### **Abbreviations and acronyms**

| Abbr.           | Descriptions of used abbreviations  |
|-----------------|---|
| Acute Tox.      | Acute toxicity  |
| ADN             | Accord européen relatif au transport international des marchandises dangereuses par voies de naviga-<br>tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In-<br>land Waterways) |
| ADR             | Accord européen relatif au transport international des marchandises dangereuses par route (European<br>Agreement concerning the International Carriage of Dangerous Goods by Road)  |
| Aquatic Acute   | Hazardous to the aquatic environment - acute hazard   |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard   |
| Asp. Tox.       | Aspiration hazard   |

Malta (en) Page 18 / 20

according to Regulation (EC) No. 1907/2006 (REACH)



article number: A432



| Abbr.      | Descriptions of used abbreviations  |
|------------|---|
| ATE        | Acute Toxicity Estimate   |
| BCF        | Bioconcentration factor   |
| BOD        | Biochemical Oxygen Demand   |
| CAS        | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| CLP        | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| COD        | Chemical oxygen demand  |
| DGR        | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL       | Derived No-Effect Level   |
| EC50       | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval  |
| EC No      | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EINECS     | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS     | European List of Notified Chemical Substances   |
| ErC50      | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control            |
| Eye Dam.   | Seriously damaging to the eye   |
| Eye Irrit. | Irritant to the eye   |
| Flam. Liq. | Flammable liquid  |
| GHS        | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA       | International Air Transport Association   |
| IATA/DGR   | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO       | International Civil Aviation Organization   |
| IMDG       | International Maritime Dangerous Goods Code   |
| index No   | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008  |
| LC50       | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                                 |
| LD50       | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval  |
| log KOW    | n-Octanol/water   |
| NLP        | No-Longer Polymer   |
| PBT        | Persistent, Bioaccumulative and Toxic   |
| PNEC       | Predicted No-Effect Concentration   |
| REACH      | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID        | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula-<br>tions concerning the International carriage of Dangerous goods by Rail)      |
| Skin Corr. | Corrosive to skin   |

Malta (en) Page 19 / 20

according to Regulation (EC) No. 1907/2006 (REACH)

#### Oil of cinnamon, natural

article number: A432



| Abbr.       | Descriptions of used abbreviations       |
|-------------|--|
| Skin Irrit. | Irritant to skin                         |
| Skin Sens.  | Skin sensitisation                       |
| SVHC        | Substance of Very High Concern           |
| VOC         | Volatile Organic Compounds               |
| vPvB        | Very Persistent and very Bioaccumulative |

#### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### **Classification procedure**

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text  |
|------|---|
| H226 | Flammable liquid and vapour.                          |
| H301 | Toxic if swallowed.                                   |
| H302 | Harmful if swallowed.                                 |
| H304 | May be fatal if swallowed and enters airways.         |
| H312 | Harmful in contact with skin.                         |
| 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.      |
| H412 | Harmful to aquatic life with long lasting effects.    |

#### **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Malta (en) Page 20 / 20