# Allergen Analysis

*Compound Name : CINNAMON LEAF OIL*

| flavour ingredient | CAS No. | Concentration present as a percentage (%) or 'A' for absent in flavour | | |
|---|---|---|---|---|
| | | Added as such | From natural & other sources | Total |
| alpha-iso-Methylionone | 127-51-5 | A | A | A |
| Amyl Cinnamal | 122-40-7 | A | A | A |
| Amylcinnamyl Alcohol | 101-85-9 | A | A | A |
| Anise Alcohol | 105-13-5 | A | A | A |
| Benzyl Alcohol | 100-51-6 | A | A | A |
| Benzyl Benzoate | 120-51-4 | A | 3.50 | 3.50 |
| Benzyl Cinnamate | 103-41-3 | A | A | A |
| Benzyl Salicylate | 118-58-1 | A | A | A |
| Butylphenyl Methylpropional (Lilial) | 80-54-6 | A | A | A |
| Cinnamal | 104-55-2 | A | 1.50 | 1.50 |
| Cinnamyl Alcohol | 104-54-1 | A | A | A |
| Citral | 5392-40-5 | A | A | A |
| Citronellol | 106-22-9 | A | A | A |
| Coumarin | 91-64-5 | A | A | A |
| Eugenol | 97-53-0 | A | 74.00 | 74.00 |
| Evernia Furfuraceae (Tree Moss) Extract | 90028-67-4 | A | A | A |
| Evernia Prunastri (Oak Moss) Extract | 90028-68-5 | A | A | A |
| Farnesol | 4602-84-0 | A | A | A |
| Geraniol | 106-24-1 | A | A | A |
| Hexyl Cinnamal | 101-86-0 | A | A | A |
| Hydroxycitronellal | 107-75-5 | A | A | A |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyral) | 31906-04-4 | A | A | A |
| Isoeugenol | 97-54-1 | A | 0.10 | 0.10 |
| Limonene | 5989-27-5<br>7705-14-8 | A | A | A |
| Linalool | 78-70-6 | A | 2.50 | 2.50 |
| Methyl 2-Octynoate | 111-12-6 | A | A | A |

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# CMR STATEMENT

| IDENTIFICATION | |
|---|---|
| Product: | CINNAMON LEAF OIL |
| Cas No: | 84649-98-9 / 8015-91-6 |
| EINECS No: | 283-479-0 |

## STATEMENT

We from information received from our supplier, hereby declare that the material listed above contains the following CMR substances or traces of CMR substances (Carcinogenic, Mutagenic, Toxic for reproduction) graded 1A, 1B and 2 listed below in accordance with the 1272/2008/E Regulation:

| Components | Cas No | % Total |
|---|---|---|
| Methyl Eugenol | 93-15-2 | <1.0% |

06/12/2022

This document represents to the best of our knowledge and from information received from our supplier. It does not release the buyer from the obligation to carry out an examination of the goods received. All uses made by the buyer are done under their own responsibility.

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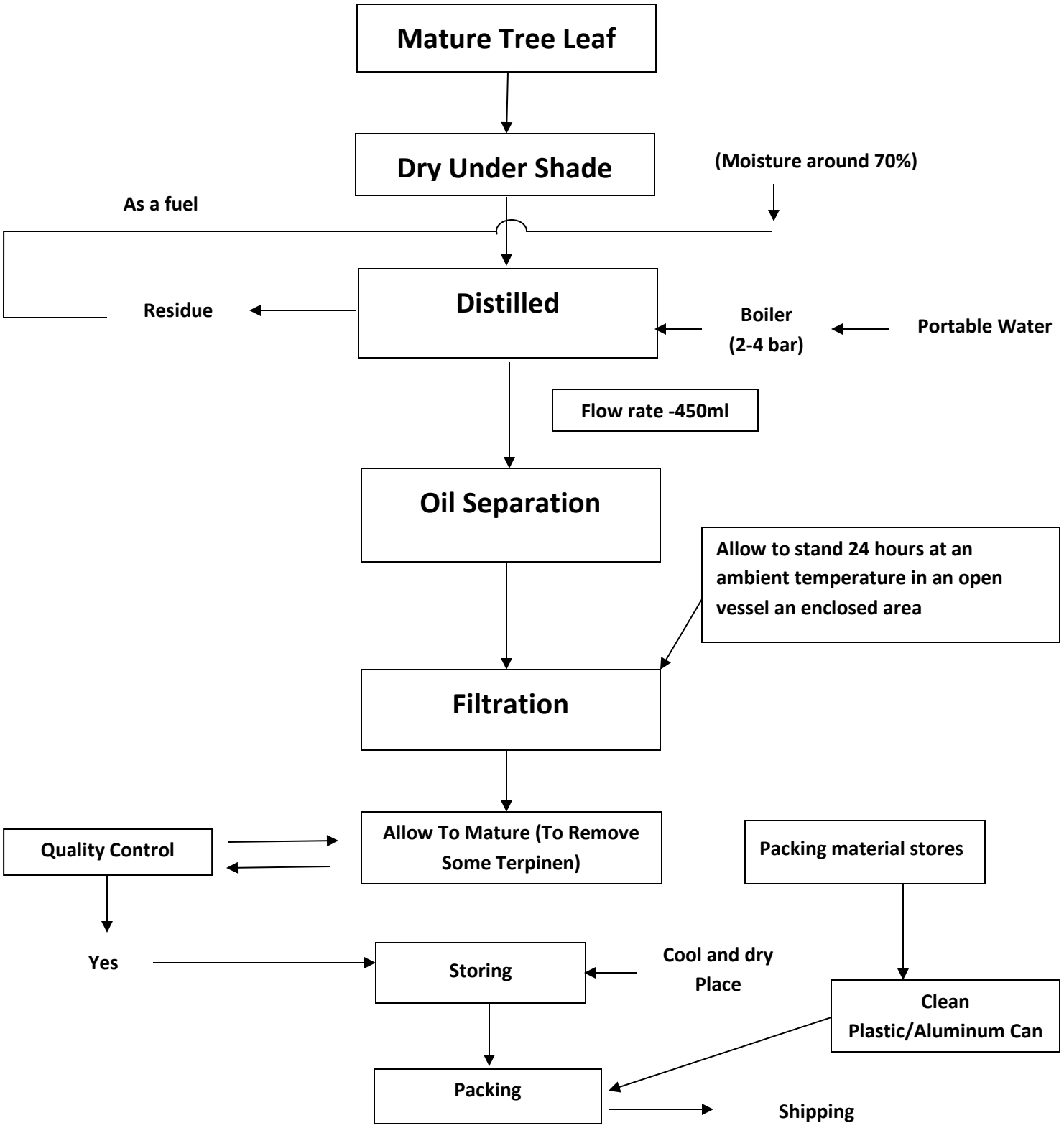
# CINNAMON LEAF OIL

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# SAFETY DATA SHEET
# CINNAMON LEAF OIL

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

### 1.1. Product identifier

| | |
|---|---|
| **Product name** | CINNAMON LEAF OIL |
| **Product number** | |
| **Synonyms; trade names** | Cinnamomum zeylancium ext |
| **EU REACH registration number** | 01-2119487278-23-XXXX |
| **CAS number** | 84649-98-9 |
| **Alternative Cas Number** | 8015-91-6 |
| **EU index number** | 605-020-00-9 |
| **EC number** | 283-479-0 |

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

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

**Supplier**

Naturally Balmy Ltd
8 Benson Road
Nuffield Industrial
Estate Poole
BH17 0GB
Tel. +44 1202 567046
Email: sales@naturallybalmy.co.uk

### 1.4. Emergency telephone number

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (SI 2019 No. 720)**

| | |
|---|---|
| **Physical hazards** | Not Classified |
| **Health hazards** | Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 1B - H350 |
| **Environmental hazards** | Aquatic Chronic 3 - H412 |

| | |
|---|---|
| **Human health** | May cause serious eye damage. The liquid may be irritating to skin. |
| **Environmental** | The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. |

### 2.2. Label elements

| | |
|---|---|
| **EC number** | 283-479-0 |

# CINNAMON LEAF OIL

**Hazard pictograms**

| | |
|---|---|
| **Signal word** | Danger |
| **Hazard statements** | H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H341 Suspected of causing genetic defects.<br>H350 May cause cancer.<br>H412 Harmful to aquatic life with long lasting effects. |
| **Precautionary statements** | P202 Do not handle until all safety precautions have been read and understood.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>P302+P352 IF ON SKIN: Wash with plenty of water.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337+P313 If eye irritation persists: Get medical advice/ attention.<br>P501 Dispose of contents/ container in accordance with national regulations. |
| **Contains** | Eugenol, Cinnamic Aldehyde, Alpha Pinene, safrole |
| **Supplementary precautionary statements** | P201 Obtain special instructions before use.<br>P261 Avoid breathing vapour/ spray.<br>P264 Wash contaminated skin thoroughly after handling.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P308+P313 IF exposed or concerned: Get medical advice/ attention.<br>P321 Specific treatment (see medical advice on this label).<br>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.<br>P362+P364 Take off contaminated clothing and wash it before reuse.<br>P405 Store locked up. |

### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Eugenol** **70-85%**

CAS number: 97-53-0 EC number: 202-589-1

**Classification**
Eye Irrit. 2 - H319
Skin Sens. 1 - H317

**Beta Caryophyllene** **1.5-7.0%**

CAS number: 87-44-5 EC number: 201-746-1

**Classification**
Skin Sens. 1B - H317
Asp. Tox. 1 - H304
Aquatic Chronic 4 - H413

# CINNAMON LEAF OIL

**Eugenyl Acetate** **0.5 - 4.25%**

CAS number: 93-28-7 EC number: 202-235-6

**Classification**
Acute Tox. 4 - H302
Skin Sens. 1B - H317

**benzyl benzoate** **2 - 4%**

CAS number: 120-51-4 EC number: 204-402-9

M factor (Acute) = 1

**Classification**
Acute Tox. 4 - H302
Aquatic Acute 1 - H400
Aquatic Chronic 2 - H411

**Linalool** **1 - 4%**

CAS number: 78-70-6 EC number: 201-134-4

**Classification**
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317

**Cinnamyl Acetate** **0.75 - 3%**

CAS number: 103-54-8 EC number: 203-121-9

**Classification**
Skin Sens. 1 - H317

**(R)-(-) alpha-phellandrene** **0.75 - 2%**

CAS number: 4221-98-1 EC number: 224-167-6

**Classification**
Flam. Liq. 3 - H226
Asp. Tox. 1 - H304

**CINNAMIC ALDEHYDE** **0.5 - 3%**

CAS number: 104-55-2 EC number: 203-213-9

**Classification**
Acute Tox. 4 - H312
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317

# CINNAMON LEAF OIL

| | | |
|---|---|---|
| **Alpha Pinene** | | **0.5 - 2.5%** |
| CAS number: 80-56-8 | EC number: 201-291-9 | |
| M factor (Acute) = 1 | M factor (Chronic) = 1 | |

**Classification**
Flam. Liq. 3 - H226
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
Asp. Tox. 1 - H304
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

| | | |
|---|---|---|
| **safrole** | | **0.5-2%** |
| CAS number: 94-59-7 | EC number: 202-345-4 | |

**Classification**
Acute Tox. 4 - H302
Muta. 2 - H341
Carc. 1B - H350

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Get medical attention.

**Ingestion** Get medical attention immediately. If medical advice is needed, have product container or label at hand. Do not induce vomiting.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

**Eye contact** Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Get medical attention if symptoms are severe or persist after washing.

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

**Inhalation** May cause coughing and difficulties in breathing.

**Ingestion** Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system.

**Skin contact** Toxic in contact with skin.

**Eye contact** May cause eye irritation.

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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Use as appropriate carbon dixoide ($CO_2$), dry chemical or foam

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

**Specific hazards** Burning produces irritating, toxic and obnoxious fumes.

# CINNAMON LEAF OIL

## 5.3. Advice for firefighters

| | |
|---|---|
| **Special protective equipment for firefighters** | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |

# CINNAMON LEAF OIL

## SECTION 6: Accidental release measures

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

**Personal precautions** Ensure adequate ventilation of the working area, evacuate personnel to safe area, wear suitable protective equipment.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled container for disposal. Clean spillage area thoroughly with plenty of water.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid contact with skin and eyes. Provide adequate ventilation.

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

**Storage precautions** Keep in a cool, well ventilated place. Keep containers tightly closed

### 7.3. Specific end use(s)

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Eugenol (CAS: 97-53-0)

**DNEL**

Workers - Inhalation; Long term systemic effects: 21.2 mg/m³
Workers - Dermal; Long term systemic effects: 6 mg/kg, bw/day
General population - Inhalation; Long term systemic effects: 5.22 mg/m³
General population - Dermal; Long term systemic effects: 3 mg/kg, bw/day
General population - Oral; Long term systemic effects: 3 mg/kg, bw/day

**PNEC**

- Fresh water; Short term 1.13 mg/l
- Intermittent release, Fresh water; 11.3 mg/l
- marine water; Short term 0.113 mg/l
- Sediment (Freshwater); Short term 0.081 mg/kg
- Sediment (Marinewater); Short term 0.008 mg/kg
- Soil; Short term 0.015 mg/kg

#### Linalool (CAS: 78-70-6)

# CINNAMON LEAF OIL

**DNEL**

Workers - Dermal; Short term systemic effects: 5 mg/kg
Workers - Inhalation; Short term systemic effects: 16.5 mg/m³
Workers - Dermal; Long term systemic effects: 2.5 mg/kg
Workers - Inhalation; Long term systemic effects: 2.8 mg/m³
General population - Oral; Short term systemic effects: 1.5 mg/kg
General population - Dermal; Short term systemic effects: 2.5 mg/kg
General population - Inhalation; Short term systemic effects: 4.1 mg/m³
General population - Oral; Long term systemic effects: 0.2 mg/kg
General population - Dermal; Long term systemic effects: 1.25 mg/kg
General population - Inhalation; Long term systemic effects: 0.7 mg/m³
- ; :

**PNEC**

- STP; Short term 10 mg/l
- Soil; Short term 0.327 mg/kg
- Intermittent release; Short term 2 mg/l
- Fresh water; Short term 0.2 mg/l
- marine water; Short term 0.02 mg/l
- Sediment (Freshwater); Short term 2.22 mg/kg
- Sediment (Marinewater); Short term 0.222 mg/kg

## CINNAMIC ALDEHYDE (CAS: 104-55-2)

**DNEL**

Workers - Inhalation; Long term systemic effects: 13.6 mg/m³
Workers - Dermal; Long term systemic effects: 3.85 mg/kg, bw/day
General population - Inhalation; Long term systemic effects: 2.4 mg/m³
General population - Dermal; Long term systemic effects: 1.37 bw/day, mg/kg
General population - Oral; Long term systemic effects: 1.37 bw/day, mg/kg

**PNEC**

- Fresh water; Short term 0.021 mg/l
- Fresh water, Intermittent release; Short term 0.21 mg/l
- marine water; Short term 0.002 mg/l
- STP; Short term 7.1 mg/l
- Sediment (Freshwater); Short term 0.021 mg/kg
- Sediment (Marinewater); Short term 0.002 mg/kg
- Soil; Short term 0.004 mg/kg

## Alpha Pinene (CAS: 80-56-8)

**DNEL**

Workers - Inhalation; Long term systemic effects: 3.8 mg/m³
Workers - Dermal; Long term systemic effects: 0.54 bw/day, mg/kg
General population - Inhalation; Long term systemic effects: 0.67 mg/m³
General population - Dermal; Long term systemic effects: 0.19 mg/kg, bw/day
General population - Oral; Long term systemic effects: 0.19 mg/kg, bw/day

**PNEC**

- Fresh water; Short term 0.606 mg/l
- Fresh water, Intermittent release; 3.03 mg/l
- marine water; Short term 0.061 mg/l
- Intermittent release, marine water; 0.303 mg/l
- STP; Short term 0.2 mg/l
- Sediment (Freshwater); Short term 157 mg/kg
- Sediment (Marinewater); Short term 15.7 mg/kg
- Soil; Short term 31.7 mg/kg

### 8.2. Exposure controls

# CINNAMON LEAF OIL

**Protective equipment**

| | |
|---|---|
| **Appropriate engineering controls** | Provide adequate ventilation. |
| **Eye/face protection** | Approved safety goggles. |
| **Hand protection** | Chemical resistant gloves (PVC) |
| **Other skin and body protection** | Wear protective clothing. |
| **Hygiene measures** | Good personal hygiene procedures should be implemented. |
| **Respiratory protection** | Self contained breathing apparatus must be used in handling. |

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Appearance** | Liquid. |
| **Colour** | Brown |
| **Odour** | Characteristic. |
| **Melting point** | This is a clear mobile liquid at 20c and a clear mobile liquid after 48h at 20c. |
| **Initial boiling point and range** | 245.7°C @ 99.1 kPa |
| **Flash point** | ca 90.3°C |
| **Vapour pressure** | 10.51 Pa @ 25°C |
| **Relative density** | 1.030 - 1.059 @ 20°C |
| **Auto-ignition temperature** | 380°C |

### 9.2. Other information

| | |
|---|---|
| **Refractive index** | 1.5290 - 1.5400 |
| **Optical Rotation** | -2.5 to +2.0 |

**Hydrocarbon Content**

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

**Stability** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

### 10.5. Incompatible materials

**Materials to avoid** Strong acids. Alkalis. Oxidising agents.

### 10.6. Hazardous decomposition products

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

# CINNAMON LEAF OIL

**Acute toxicity - oral**

**ATE oral (mg/kg)** 7,812.5

**Acute toxicity - dermal**

**ATE dermal (mg/kg)** 86,614.17

## SECTION 12: Ecological information

### 12.1. Toxicity

**Acute aquatic toxicity**

**Acute toxicity - aquatic invertebrates** EL50, 48 hours: 1.6 mg/l, Freshwater invertebrates

**Acute toxicity - aquatic plants** $EC_{50}$, 72 hours: 17 mg/l, Pseudokirchneriella subcapitata

### 12.2. Persistence and degradability

**Biodegradation** Expected to be readily biodegradable.

### 12.3. Bioaccumulative potential

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Dispose of in compliance with all local and national regulations.

## SECTION 14: Transport information

**General** Not regulated.

### 14.1. UN number

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

### 14.4. Packing group

### 14.5. Environmental hazards

### 14.6. Special precautions for user

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

# CINNAMON LEAF OIL

## SECTION 15: Regulatory information

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

**Guidance** CHIP for everyone HSG228.

### 15.2. Chemical safety assessment

**Inventories**

**EU - EINECS/ELINCS**
Complies

**Canada - DSL/NDSL**
Complies

**US - TSCA**
Complies

**US - TSCA 12(b) Export Notification**
Not listed.

**Australia - AIIC**
Complies

**Japan - ENCS**
Complies

**Korea - KECI**
Complies

**China - IECSC**
Complies

**Philippines – PICCS**
Complies

**New Zealand - NZIOC**
Complies

**Taiwan - TCSI**
Complies

## SECTION 16: Other information

**Revision date** 06/10/2022

**Revision** 8

**Supersedes date** 25/08/2020

**SDS number** 4648

# CINNAMON LEAF OIL

**Hazard statements in full**

H226 Flammable liquid and vapour.
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.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

# Product Specification

| PRODUCT DETAILS | | |
|---|---|---|
| Product Name | **CINNAMON LEAF OIL** | |
| Product Code | OECINNLEAF | |
| INCI Name | Cinnamomum zeylancium ext | |
| Country of Origin | Sri Lanka | |
| Tariff Number | 3301 2949 00 | |
| REACH Registration | 01-2119487278-23-XXXX | |
| Natural Status | We hereby declare, to the best of our knowledge and from information received from our supplier, that this product is in accordance to the requirements of Articles 3 (2) (d) of Regulation (EC) 1334/2008 and therefore can be designatd as natural and 100% from named source Cinnamomum zeylancium ext. | |
| Food Grade Status | We confirm, from information received from our supplier, that this product complies with the requirements of the EU Directive 88/388/EEC and the EU Regulation (EC) 1334/2008 and can be used in flavours as per information received from our supplier. | |
| Kosher Certified | Yes | |
| Halal Certified | No but is Halal suitable | |
| Palm / Palm Derivative | We confirm that this product to the best of our knowledge is free from Palm and Palm Derivatives. | |
| GMO Declaration | To the best of our knowledge and from information received from our supplier, this product does not derive from genetically modified starting raw material, or additives that are derived from genetically modified organisms. | |
| Manufacturing Process | Steam distilled from the leaves of cinnamomum zeylancium. | |
| Identification | CAS No: 84649-98-9 | EINECS No: 283-479-0 |
| | FEMA No: 2291, 2292 | Alternative Cas: 8015-91-6 |
| **PHYSICAL AND CHEMICAL CHARACTERISTIC** | | |
| Appearance | Liquid | |
| Colour | Brown | |
| Odour | Characteristic | |
| Density @ 20c | 1.030 - 1.059 | |
| Refractive Index @ 20c | 1.5290 - 1.5400 | |
| Flash Point: | ca 90.3c | |
| Optical Rotation ° | -2.5 to +2.0 | |
| **Constituents** | | |
| Eugenol content | >60% | |
| Eugenol Acetate content | 1 - 5% | |
| Safrol content | <1% | |
| **FRAGRANCE ALLERGENS** | | |
| Benzyl Acetate (120-51-4)= **1-5%** | Cinnamic alcohol (104-54-1)=**<1%** | Cinnamic Aldehyde (104-55-2)= **1-5%** |
| Eugenol (97-53-0)= **>70%** | Linalool (78-70-6)= **1-5%** | Coumarin (91-64-5) **<0.5%** |
| **FOOD ALLERGENS** | | |
| NONE PRESENT | | |
| **IFRA** | | |
| Benzyl Aldehyde (100-52-7)=**<1%** | Benzyl Benzoate (120-51-4)=**1-5%** | Cinnamic Aldehyde (104-55-2)= **1-5%** |
| Eugenol (97-53-0)= **>70%** | Iso Eugenol (97-54-1)=**<1%** | Methyl Eugenol (93-15-2)=**<1%** |
| Safrole (94-59-7)=**<1%** | Coumarin (91-64-5) **<0.5%** | |
| **STORAGE AND SHELF LIFE** | | |
| Storage | Store in tightly closed container with minimum headspace in a cool, dark and dry place. | |
| Shelf Life | 36 months if stored as above. | |



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# Vegan and Vegetarian Statement

| IDENTIFICATION | |
|---|---|
| Product: | CINNAMON LEAF OIL |
| Cas No: | 84649-98-9 / 8015-91-6 |
| EINECS No: | 283-479-0 |

## STATEMENT

We from information received from our supplier, hereby declare that the material listed above is suitable for the following:

Vegans (Excludes all animal derived products, including dairy, eggs, leather, bee products (beeswax and honey).

Lacto Vegetarians ( Same as vegan but allows milk products and bee products.

Ovo Vegetarians (Same as vegan but allows egg products and bee products)

It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.

4th August 2020

This document represents to the best of our knowledge and from information received from our supplier. It does not release the buyer from the obligation to carry out an examination of the goods received. All uses made by the buyer are done under their own responsibility.

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