

**CHEMICAL SAFETY DATA SHEET**  
according to 1907/2006/EC Article 31, as amended by N°  
453/2010

2292902

Reviewed on: 28/10/19  
Printing date: 28/10/2019

**SECTION 01: Identification of the substance/mixture and of the company/undertaking**

1.1 Product identifier

- Trade name:  
CINNAMON leaf ORGANIC OIL
- Article number:  
B225
- CAS Number:  
8015-91-6
- EC Number:  
283-479-0
- No CAS EINECS:  
84649-98-9

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

Application of the substance / the preparation  
Perfume ingredient  
Only for industrial use

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:  
GOLGEMMA TEL: +33(0)4.68.74.17.89  
Route de FA email: fds@golgemma.com  
11260 ESPERAZA  
FRANCE

1.4 Emergency telephone number:

FR-ORFILA (INRS):+33(0)1 45 42 59 59

**SECTION 02: Hazards identification**

2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008



GHS08

Muta. 2 - H341 Suspected of causing genetic defects.  
Carc. 1B - H350 May cause cancer.



GHS07

Eye Irrit. 2 - H319 Causes serious eye irritation.  
Skin Sens. 1 - H317 May cause an allergic skin reaction.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms



GHS08



GHS07

- Signal word  
Danger

- Hazard statements  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.

- Precautionary statements  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

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- 2.3 Other hazards
- Results of PBT and vPvB assessment
  - PBT:  
Not applicable.
  - vPvB:  
Not applicable.

**SECTION 03: Composition/information on ingredients**

3.1 Chemical characterization: Substances

- | <b>CAS No.</b> | <b>Description</b>  |
|----------------|---|
| 8015-91-6      | Cinnamomum verum J.Presl (Syn : Cinnamomumzeylanicum Blume) |
| •              | Identification number(s)                                    |
| •              | EC number:<br>283-479-0                                     |

- Dangerous components:

<b>CAS Number</b>		<b>%</b>
<b>97-53-0</b>	<b>Eugenol</b> EC number: 202-589-1 ⚠ Eye Irrit. 2 - H319, Skin Sens. 1B - H317	<b>50,001-100</b>
<b>93-28-7</b>	<b>4-allyl-2-methoxyphenyl acetate</b> ⚠ Acute Tox. 4 - H302	<b>5,001-10,00</b>
<b>120-51-4</b>	<b>Benzyl benzoate</b> EC number: 204-402-9 ⚠ Acute Tox. 4 - H302; ⚠ Aquatic Acute 1 - H400, Aquatic Chronic 2 - H411	<b>5,001-10,00</b>
<b>87-44-5</b>	<b>beta-Caryophyllene</b> EC number: 201-746-1 ⚠ Asp. Tox. 1 - H304; ⚠ Skin Sens. 1B - H317	<b>5,001-10,00</b>
<b>94-59-7</b>	<b>5-allyl-1,3-benzodioxole</b> EC number: 202-345-4 ⚠ Muta. 2 - H341, Carc. 1B - H350; ⚠ Acute Tox. 4 - H302	<b>1,001- 5,00</b>
<b>99-87-6</b>	<b>p-cymene</b> EC number: 202-796-7 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Aquatic Chronic 2 - H411	<b>1,001- 5,00</b>
<b>80-56-8</b>	<b>pin-2(3)-ene</b> EC number: 201-291-9 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Skin Sens. 1B - H317	<b>1,001- 5,00</b>
<b>78-70-6</b>	<b>Linalool</b> EC number: 201-134-4 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	<b>1,001- 5,00</b>
<b>104-55-2</b>	<b>cinnamaldehyde</b>	<b>1,001- 5,00</b>

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	EC number: 203-213-9 ⚠ Acute Tox. 4 - H312, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1A - H317	
<b>1139-30-6</b>	<b>Caryophyllene oxide</b>	<b>1,001- 5,00</b>
	EC number: 214-519-7 ⚠ Aquatic Chronic 2 - H411	
<b>79-92-5</b>	<b>camphene</b>	<b>1,001- 5,00</b>
	EC number: 201-234-8 ⚠ Flam. Sol. 1 - H228; ⚠ Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	
<b>127-91-3</b>	<b>beta-Pinene</b>	<b>1,001- 5,00</b>
	EC number: 204-872-5 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Skin Irrit. 2 - H315, Skin Sens. 1B - H317	
<b>562-74-3</b>	<b>4-Carvomenthenol</b>	<b>1,001- 5,00</b>
	EC number: 209-235-5 ⚠ Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	
<b>586-62-9</b>	<b>Terpinolene</b>	<b>0,101-1,00</b>
	EC number: 209-578-0 ⚠ Asp. Tox. 1 - H304; ⚠ Skin Sens. 1B - H317; ⚠ Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	
<b>104-54-1</b>	<b>Cinnamyl alcohol</b>	<b>0,101-1,00</b>
	EC number: 203-212-3 ⚠ Skin Sens. 1B - H317	
<b>470-82-6</b>	<b>Eucalyptol</b>	<b>0,101-1,00</b>
	EC number: 207-431-5 ⚠ Flam. Liq. 3 - H226; ⚠ Skin Sens. 1B - H317	
<b>123-35-3</b>	<b>Myrcene</b>	<b>0,101-1,00</b>
	EC number: 204-622-5 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	
<b>99-86-5</b>	<b>p-mentha-1,3-diene</b>	<b>0,101-1,00</b>
	EC number: 202-795-1 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Acute Tox. 4 - H302; ⚠ Aquatic Chronic 2 - H411	
<b>98-55-5</b>	<b>p-menth-1-en-8-ol</b>	<b>0,101-1,00</b>
	EC number: 202-680-6 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	

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**5989-27-5**

**d-limonene**

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**0,101-1,00**

EC number: 227-813-5

⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3

- H226; ⚠ Skin Irrit. 2 - H315, Skin

Sens. 1B - H317; ⚠ Aquatic Acute 1 -

H400; Aquatic Chronic 3 - H412

#### SECTION 04: First aid measures

##### 4.1 Description of first aid measures

- General information:  
Seek immediate medical advice.
- After inhalation:  
Supply fresh air and to be sure call for a doctor.
- After skin contact:  
If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.
- After eye contact:  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:  
Seek immediate medical advice.
- Information for doctor:

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

No further relevant information available.

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

No further relevant information available.

#### SECTION 05: Firefighting measures

##### 5.1 Extinguishing media

- Suitable extinguishing agents:  
CO2, sand, extinguishing powder. Do not use water.  
Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents:  
Water with full jet

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

Formation of toxic gases is possible during heating or in case of fire.

##### 5.3 Advice for firefighters

- Protective equipment:  
Do not inhale explosion gases or combustion gases.
- Additional information  
Cool endangered receptacles with water spray.

#### SECTION 06: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources.

##### 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

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

Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.

##### 6.4 Reference to other sections

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See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 07: Handling and storage**

• **Handling:**

**7.1 Precautions for safe handling**

Keep receptacles tightly sealed.  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Handle with care. Avoid jolting, friction and impact.

• **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

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

• **Storage:**

• **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.  
Use only receptacles specifically permitted for this substance/ product.

• **Further information about storage conditions:**

Keep container tightly sealed.  
Protect from heat and direct sunlight.  
Store receptacle in a well ventilated area.

**7.3 Specific end use(s)**

No further relevant information available.

**SECTION 08: Exposure controls/personal protection**

**8.1 Control parameters**

• **Ingredients with limit values that require monitoring at the workplace:**

Not required.

CAS No.	Designation of material	%	Type	Value	Unit
Not required.					

Not required.

• **Additional information:**

The lists valid during the making were used as basis.

**8.2 Exposure controls**

• **Personal protective equipment:**

• **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes.

• **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Use suitable respiratory protective device in case of insufficient ventilation.

• **Protection of hands:** Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

• **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:** Safety glasses

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**PRODUCT : CINNAMON leaf ORGANIC OIL***(continued of page 5)***SECTION 09: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	fluid
<b>Colour:</b>	pale yellow to brown-yellow
<b>Odour:</b>	spicy
<b>Odour threshold:</b>	Not determined.

**Change in condition**

<b>Melting point/freezing point:</b>	0,0 °C
<b>Initial boiling point and boiling range:</b>	0,0 °C
<b>Flash point:</b>	94,0 °C    NFT 60-103 CC
<b>Flammability (solid, gas):</b>	Not determined.
<b>Auto-ignition temperature:</b>	Not determined.
<b>Explosive properties:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density:</b>	Not determined.
<b>Relative density :</b>	1,0300 1,059 (D20/20)

**Solubility in / Miscibility with****water:** Not determined.**Partition coefficient: n-octanol/water:** Not determined.**9.2 Other information** No further relevant information available.**SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No further relevant information available.

## 10.2 Chemical stability

Thermal decomposition / conditions to be avoided:  
Not determined.

## 10.3 Possibility of hazardous reactions

No dangerous reactions known.

## 10.4 Conditions to avoid

No further relevant information available.

## 10.5 Incompatible materials:

No further relevant information available.

## 10.6 Hazardous decomposition products:

Not determined.

**SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

- Acute toxicity
- LD/LC50 values relevant for classification:

<b>8015-91-6</b>	<b>Cinnamomum verum J.Presl (Syn : Cinnamomum zeylanicum Blume)</b>
Oral, LD50: 2700 mg/kg (rat)	

ISO LD/LC

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Dermal, LD50: >=5000 mg/kg (Rabbit)

**97-53-0 Eugenol**  
Oral, LD50: 1930 mg/kg (rat)

**120-51-4 Benzyl benzoate**  
Oral, LD50: 1700 mg/kg (rat)  
Oral, LD50: 3450 mg/kg (mouse) (Bier, 1979)  
Dermal, LD50: 4000 mg/kg (Rabbit)

**87-44-5 beta-Caryophyllene**  
Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)

**94-59-7 safrole**  
Oral, LD50: 1950 mg/kg (rat)  
Dermal, LD50: >5000 mg/kg (Rabbit)

**78-70-6 Linalool**  
Oral, LD50: 2790 mg/kg (rat)  
Dermal, LD50: 5610 mg/kg (Rabbit)

**104-55-2 cinnamaldehyde**  
Oral, LD50: 2220 mg/kg (rat)

**1139-30-6 Caryophyllene oxide**  
Oral, LD50: >5000 mg/kg (rat) (Moreno 1978)

**79-92-5 camphene**  
Oral, LD50: 5000 mg/kg (rat)  
Dermal, LD50: 2500 mg/kg (Rabbit)

**104-54-1 Cinnamyl alcohol**  
Oral, LD50: 2000 mg/kg (rat)  
Dermal, LD50: >5000 mg/kg (Rabbit)

**470-82-6 Eucalyptol**  
Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014)

**98-55-5 p-menth-1-en-8-ol**  
Oral, LD50: 4300 mg/kg (rat)

**5989-27-5 (R)-p-mentha-1,8-diene**  
Oral, LD50: 4400 mg/kg (rat)

- Primary irritant effect:
- Skin corrosion/irritation  
No irritant effect.
- Serious eye damage/irritation  
Irritating effect.
- Respiratory or skin sensitisation

**120-51-4 Benzyl benzoate**  
Sensitisation, NESIL: 59000 ug/cm2 (human being) (Standard IFRA)

- \* **104-55-2 cinnamaldehyde**  
Dermal, OECD 429 LLNA: SENSITIZER (mouse) (EC3 1,1%, RIFM 2004)  
Sensitization possible through skin contact.

- Subacute to chronic toxicity:

**87-44-5 beta-Caryophyllene**  
Oral, NOAEL: 700 mg/kg (rat) (90 days Schmitt 2016)

**78-70-6 Linalool**  
Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al., 2008)

- \* **104-55-2 cinnamaldehyde**  
Oral, NOAEL: 100 mg/kg (rat) (2 years, RIFM 2019)
- Germ cell mutagenicity

**120-51-4 Benzyl benzoate**  
OECD 471 AMES: NEGATIVE (in vitro) (Schunk and al., 1986)

**87-44-5 beta-Caryophyllene**  
OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989)

**78-70-6 Linalool**  
OECD 471 AMES: NEGATIVE (in vitro) (Letizia and al., 2007)

- \* **104-55-2 cinnamaldehyde**  
OECD 471 AMES: NEGATIVE (in vitro) (NTP 2004)

- \* **1139-30-6 Caryophyllene oxide**  
OECD 471 AMES: NEGATIVE (in vitro) (Richold and al, 1979)

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- \* **470-82-6 Eucalyptol**
- \* OECD 471 AMES: NEGATIVE (in vitro) (Haworth, 1983)
- Carcinogenicity
- 78-70-6 Linalool**
- Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007)
- Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)
- \* **104-55-2 cinnamaldehyde**
- \* Micronoyau: NEGATIVE (mouse) (NTP 2004)
- Reproductive toxicity  
Not determined.
- STOT-single exposure  
Not determined.
- STOT-repeated exposure  
Not determined.
- Aspiration hazard  
Not determined.

**SECTION 12: Ecological information**

12.1 Toxicity

- Aquatic toxicity:

**99-87-6 p-cymene**  
LD50: 1,63 mg/l (fish) (OECD 203)

**78-70-6 Linalool**  
LD50: 27,8 mg/l (fish) ((OECD 203) RIFM 1991)  
ErC50(0-72h): 156,7 mg/l (algae)  
ErC50(0-48h): 59 mg/l (daphnia) ((OECD 202)

- \* **104-55-2 cinnamaldehyde**
- \* ErC50(0-48h): 3,86 mg/l (daphnia) (RIFM 2003)
- \* 96h-LC50: 4,15 mg/l (fish) (RIFM 1993)

- \* **123-35-3 Myrcene**
- \* LD50: 0,51 mg/l (fish) (OECD 203)
- \* CE50/48h: 0,65 mg/l (daphnia)

- \* **5989-27-5 (R)-p-mentha-1,8-diene**
- \* LD50: 0,71 mg/l (fish) (OECD 203)

12.2 Persistence and degradability

No further relevant information available.

- Behaviour in environmental systems:  
Not determined.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

- Ecotoxicological effects:  
Not determined.
- Additional ecological information:
- General notes:  
Do not allow product to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

- PBT:  
Not applicable.
- vPvB:  
Not applicable.

12.6 Other adverse effects

No further relevant information available.

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**SECTION 13: Disposal considerations**

13.1 Waste treatment methods

- Recommendation  
Must be specially treated adhering to official regulations.
- Uncleaned packaging:
- Recommendation:  
Disposal must be made according to official regulations.

**SECTION 14: Transport information**

14.1 UN-Number

**ADR** Void

**IMDG** Void

**IATA** Void

14.2 UN proper shipping name

**ADR** Void

**IMDG** Void

**IATA** Void

14.3 Transport hazard class(es)

**ADR**

**Class** Void

**IMDG**

**Class** Void

**IATA**

**Class** Void

14.4 Packing group

**ADR** Void

**IMDG** Void

**IATA** Void

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

- Transport/Additional information:  
Not applicable.

**SECTION 15: Regulatory information**

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

- National regulations:
- Waterhazard class:  
Water hazard class 2 (Self-assessment): hazardous for water.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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**SECTION 16: Other information**

The information in this safety data sheet is based on the state of our knowledge at the date indicated. The information in this sheet must be regarded as a description of the safety requirements for the product, they are not to be considered a warranty or quality specification and have no contractual value on properties and application areas thereof. The information contained in this safety data sheet relate to the specific material designated and may not be valid with respect to the product associated with another product or process, unless it is specified in the text of this document.

The required information complies with EU regulations in force. It does not exempt the user from knowing and applying all the national regulations in force.

- **Relevant phrases**

H226	Flammable liquid and vapour.
H228	Flammable solid.
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.
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.

- **Training hints**

Minimum training in occupational risk prevention is recommended for personnel who will handle this product, in the purpose of facilitating the understanding and interpretation of this form of safety data in the same way as the labeling of the product.

- **Abbreviations and acronyms:**

IFRA: International Fragrance Association IOFI: International Organization of the Flavor Industry  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

- **Sources**

IFRA/IOFI Labelling Manual, REACH registration dossier, supplier information

- \* Data compared to the previous version altered.