

Safety Data Sheet  
according to 29 CFR 1910.1200

2544800

Reviewed on: 13/12/19  
Printing date: 13/12/2019

## 01 Identification

### 1.1 Product identifier

- Trade name:  
CINNAMON bark ORGANIC OIL FFL
- Article number:  
B220F
- CAS Number:  
8015-91-6
- EC Number:  
283-479-0

### 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

## 02 Hazard(s) identification

### 2.1 Classification of the substance or mixture



GHS06

Acute Tox. 3 - H311 Toxic in contact with skin.



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.  
Eye Irrit. 2A - H319 Causes serious eye irritation.  
Skin Sens. 1 - H317 May cause an allergic skin reaction.

H227 Combustible liquid.

H402 Harmful to aquatic life.  
Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

- GHS label elements
- Hazard pictograms



GHS06

- Signal word  
Danger
- Hazard statements  
H311 Toxic in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H227 Combustible liquid.  
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements  
P210 Keep away from flames and hot surfaces. No smoking.

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P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 Wash thoroughly after handling.  
P302+P352 If on skin: Wash with plenty of water.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

### 03 Composition/information on ingredients

#### 3.1 Chemical characterization: Substances

CAS No.	Description
8015-91-6	Cinnamomum verum J.Presl (Syn : Cinnamomumzeylanicum Blume)

- Identification number(s)
- EC Number:  
283-479-0

- Dangerous components:

CAS Number		%
104-55-2	<b>cinnamaldehyde</b> EC Number: 203-213-9	50,001-100
87-44-5	<b>caryophyllene</b> EC Number: 201-746-1	5,001-10,00
97-53-0	<b>eugenol</b> EC Number: 202-589-1	5,001-10,00
99-87-6	<b>p-cymene</b> EC Number: 202-796-7	5,001-10,00
80-56-8	<b>pin-2(3)-ene (alpha pinene)</b> EC Number: 201-291-9	5,001-10,00
78-70-6	<b>linalol</b> EC Number: 201-134-4	1,001- 5,00
99-86-5	<b>terpinene alpha</b> EC Number: 202-795-1	1,001- 5,00
79-92-5	<b>camphene</b> EC Number: 201-234-8	1,001- 5,00
470-82-6	<b>eucalyptol</b> EC Number: 207-431-5	1,001- 5,00
562-74-3	<b>p-menth-1-ene-4-ol (4-terpineol)</b> EC Number: 209-235-5	1,001- 5,00
5989-27-5	<b>limonene-d</b> EC Number: 227-813-5	1,001- 5,00
104-54-1	<b>cinnamic alcohol</b> EC Number: 203-212-3	1,001- 5,00
120-51-4	<b>benzyl benzoate</b> EC Number: 204-402-9	1,001- 5,00
76-22-2	<b>bornane-2-one (camphor)</b> EC Number: 200-945-0	1,001- 5,00
127-91-3	<b>pin-2(10)-ene (pinene beta)</b> EC Number: 204-872-5	1,001- 5,00
98-55-5	<b>p-menth-1-en-8-ol</b> EC Number: 202-680-6	1,001- 5,00
123-35-3	<b>myrcene</b> EC Number: 204-622-5	0,101-1,00

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<b>586-62-9</b>	<b>p-mentha-1,4(8)-diene (terpinolene)</b> EC Number: 209-578-0	<b>0,101-1,00</b>
<b>13466-78-9</b>	<b>delta-3-carene</b> EC Number: 236-719-3	<b>0,101-1,00</b>
<b>94-59-7</b>	<b>safrole</b> EC Number: 202-345-4	<b>0,01-0,100</b>

**04 First-aid measures**

- **General information:**  
Immediately remove any clothing soiled by the product.  
In case of irregular breathing or respiratory arrest provide artificial respiration.  
Seek immediate medical advice.
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **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.

**05 Fire-fighting measures**

- **Suitable extinguishing agents:**  
CO2, sand, extinguishing powder. Do not use water.  
Use fire fighting measures that suit the environment.
  - **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.
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.
  - **Additional information**  
Cool endangered receptacles with water spray.

**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
- 6.3 Methods and material for containment and cleaning up:  
Dispose contaminated material as waste according to item 13.
- 6.4 Reference to other sections  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**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.

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- Open and handle receptacle with care.
- Handle with care. Avoid jolting, friction and impact.
- Information about protection against explosions and fires:  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- Storage:
- Requirements to be met by storerooms and receptacles:  
Store only in the original receptacle.  
Prevent any seepage into the ground.  
Use only receptacles specifically permitted for this substance/ product.
- Further information about storage conditions:  
Keep receptacle 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.

**08 Exposure controls/personal protection**

- Components with limit values that require monitoring at the workplace:  
Not required.
- CAS No.**                      **Designation of material**                      **%**                      **Type**                      **Value Unit**
- Not required.
- Additional information:  
The lists that were valid during the creation were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:  
The usual precautionary measures for handling chemicals should be followed.  
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.
- Breathing equipment: 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

**09 Physical and chemical properties**

<b>General Information</b>	
<b>Appearance:</b>	
<b>Form:</b>	fluid
<b>Color:</b>	yellow to amber
<b>Odor:</b>	spicy
<b>Odor threshold:</b>	Not determined.
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	0,0 °C
<b>Boiling point/Boiling range:</b>	0,0 °C
<b>Flash point:</b>	71,0 °C    NFT 60-103 CC
<b>Flammability (solid, gaseous):</b>	Undetermined.
<b>Auto igniting:</b>	Not determined.

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<b>Danger of explosion:</b>	Undetermined.
<b>Vapor pressure:</b>	Not determined.
<b>Density:</b>	Not determined.
<b>Relative density</b>	0,9900 à 1,0400 (D20/20)
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Not determined.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:  
Undetermined.
- Incompatible materials:  
No further relevant information available.
- Hazardous decomposition products:  
Undetermined.

## 11 Toxicological information

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

ISO LD/LC

**8015-91-6 Cinnamomum verum J.Presl (Syn : Cinnamomum zeylanicum Blume)**

Oral, LD50: 3400 mg/kg (rat)  
Dermal, LD50: 690 mg/kg (Rabbit)

**104-55-2 cinnamaldehyde**

Oral, LD50: 2220 mg/kg (rat)

**87-44-5 caryophyllene**

Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)

**97-53-0 eugenol**

Oral, LD50: 1930 mg/kg (rat)

**78-70-6 linalol**

Oral, LD50: 2790 mg/kg (rat)  
Dermal, LD50: 5610 mg/kg (Rabbit)

**79-92-5 camphene**

Oral, LD50: 5000 mg/kg (rat)  
Dermal, LD50: 2500 mg/kg (Rabbit)

**470-82-6 eucalyptol**

Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014)

**5989-27-5 limonene-d**

Oral, LD50: 4400 mg/kg (rat)

**104-54-1 cinnamic alcohol**

Oral, LD50: 2000 mg/kg (rat)  
Dermal, LD50: >5000 mg/kg (Rabbit)

**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)

**76-22-2 bornane-2-one (camphor)**

Oral, LD50: >5000 mg/kg (rat) (Opdyke 1978)  
Dermal, LD50: >1000 mg/kg (mouse) (NTP 1998)

**98-55-5 p-menth-1-en-8-ol**

Oral, LD50: 4300 mg/kg (rat)

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- 13466-78-9 delta-3-carene**  
Oral, LD50: 4800 mg/kg (rat) (Moreno 1975)
- 94-59-7 safrole**  
Oral, LD50: 1950 mg/kg (rat)  
Dermal, LD50: >5000 mg/kg (Rabbit)
- Primary irritant effect:
    - on the skin:  
Irritant to skin and mucous membranes.
    - on the eye:  
Irritating effect.
  - Sensitization:
- 104-55-2 cinnamaldehyde**  
Dermal, OECD 429 LLNA: SENSITIZER (mouse) (EC3 1,1%, RIFM 2004)
- 120-51-4 benzyl benzoate**  
Sensitization, NESIL: 59000 ug/cm<sup>2</sup> (human being) (Standard IFRA)  
Sensitization possible through skin contact.
- Subacute to chronic toxicity:
- 104-55-2 cinnamaldehyde**  
Oral, NOAEL: 100 mg/kg (rat) (2 years, RIFM 2019)
- 87-44-5 caryophyllene**  
Oral, NOAEL: 700 mg/kg (rat) (90 days Schmitt 2016)
- 78-70-6 linalol**  
Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al., 2008)
- 76-22-2 bornane-2-one (camphor)**  
Oral, NOAEL: >800 mg/kg (rat) (fetal toxicity GD 6 to 15, NTP 1992)
- OSHA-Ca (Occupational Safety & Health Administration)  
Substance is not listed.

## 12 Ecological information

- Aquatic toxicity:
  - 104-55-2 cinnamaldehyde**  
ErC50(0-48h): 3,86 mg/l (daphnia) (RIFM 2003)  
96h-LC50: 4,15 mg/l (fish) (RIFM 1993)
  - 99-87-6 p-cymene**  
LD50: 1,63 mg/l (fish) (OECD 203)
  - 78-70-6 linalol**  
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)
  - 5989-27-5 limonene-d**  
LD50: 0,71 mg/l (fish) (OECD 203)
  - 76-22-2 bornane-2-one (camphor)**  
CE50/48h: 26,82 mg/l (daphnia)  
ErC50(0-72h): 23,8 mg/l (algae)
  - 123-35-3 7-méthyl-3-méthylèneocta-1,6-diène (myrcene)**  
LD50: 0,51 mg/l (fish) (OECD 203)  
CE50/48h: 0,65 mg/l (daphnia)
- Persistence and degradability  
No further relevant information available.
- Behavior in environmental systems:  
Not determined.
- Bioaccumulative potential  
No further relevant information available.
- Ecotoxicological effects:  
Not determined.
- Additional ecological information:
- General notes:  
Harmful to aquatic organisms

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The material is harmful to the environment.

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**13 Disposal considerations**

- Waste treatment methods
- Recommendation:  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.
- Uncleaned packagings:
- Recommendation:  
Disposal must be made according to official regulations.

**14 Transport information**

- UN-Number

**DOT** UN2810

**ADR** UN2810

**IMDG** UN2810

**IATA** UN2810

- UN proper shipping name

**DOT** TOXIC, LIQUIDS, ORGANIC, N.O.S. (CINNAMOMUM VERUM J.PRESL)

**ADR** 2810 TOXIC, LIQUIDS, ORGANIC, N.O.S. (CINNAMOMUM VERUM J.PRESL)

**IMDG** TOXIC LIQUID, ORGANIC, N.O.S. (CINNAMOMUM VERUM J.PRESL)

**IATA** TOXIC LIQUID, ORGANIC, N.O.S. (CINNAMOMUM VERUM J.PRESL)

- Transport hazard class(es)

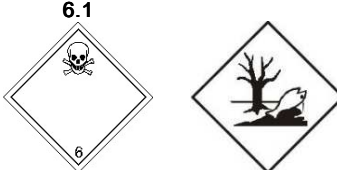
**DOT**  
**Class** 6.1 Toxic substances

**Label** **6.1**  


**ADR**  
**Class** 6.1 (T1) Toxic substances

**Label** **6.1**  


**IMDG**  
**Class** 6.1 Toxic substances

**Label** **6.1**  


**IATA**  
**Class** 6.1 Toxic substances

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**Label**

**6.1**



• Packing group

**DOT** III

**ADR** III

**IMDG** III

**IATA** III

• Environmental hazards:

**Marine pollutant:** Yes

• Special precautions for user

Warning: Toxic substances

**Danger code (Kemler):** 60

**EMS Number:** F-A,S-A

• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
Not applicable.

• Transport/Additional information:  
Not applicable.

**DOT**

**Quantity limitations** On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L

**IMDG**

**Limited quantities (LQ)** 5L

**Excepted quantities (EQ)** E1

• UN "Model Regulation":

UN 2810 TOXIC, LIQUIDS, ORGANIC, N.O.S. (CINNAMOMUM VERUM J.PRESL), 6,  
1, III

**15 Regulatory information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture  
Non-mandatory
- Hazardous Air Pollutants  
Substance is not listed.

**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 US 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 vapor.
- H227 Combustible liquid.
- 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.

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H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful 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.

- **Date of preparation / last revision**

13.12.2019

- **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

- **Sources**

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

- **\* Data compared to the previous version altered.**