

**Safety Data Sheet**  
according to 29 CFR 1910.1200

2552200

Reviewed on: 16/12/19  
Printing date: 16/12/2019

## 01 Identification

### 1.1 Product identifier

- Trade name:  
CLOVE bud MADA ORGANIC OIL FFL
- Article number:  
B480F
- CAS Number:  
8000-34-8
- EC Number:  
904-912-8

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

- Application of the substance / the preparation  
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



GHS08

Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways.



GHS07

Acute Tox. 4 - H302 Harmful if swallowed.  
Acute Tox. 4 - H312 Harmful in contact with skin.  
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.

### 2.2 Label elements

- GHS label elements
- Hazard pictograms



GHS08 GHS07

- Signal word  
Danger

#### - Hazard statements

H304 May be fatal if swallowed and enters airways.  
H302+H312 Harmful if swallowed or in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.

#### - Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P301+P310 If swallowed: Immediately call a poison center/doctor.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

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**03 Composition/information on ingredients**

3.1 Chemical characterization: Substances

**CAS No.**                      **Description**  
8000-34-8                      Syzygium aromaticum (L.) Merr. & L.M.Perry (Syn :Eugenia caryophyllus (Sprengel) Bullock et S.Harrison)

- Identification number(s)
- EC Number:  
904-912-8

• Dangerous components:

<b>CAS Number</b>		<b>%</b>
<b>97-53-0</b>	<b>eugenol</b> EC Number: 202-589-1	<b>50,001-100</b>
<b>93-28-7</b>	<b>acetyl eugenol</b>	<b>20,001-50,00</b>
<b>87-44-5</b>	<b>caryophyllene</b> EC Number: 201-746-1	<b>10,001-20,00</b>
<b>1139-30-6</b>	<b>epoxycaryophyllene</b> EC Number: 214-519-7	<b>0,101-1,00</b>
<b>97-54-1</b>	<b>isoeugenol</b>	<b>0,101-1,00</b>
<b>119-36-8</b>	<b>methyl salicylate</b> EC Number: 204-317-7	<b>0,101-1,00</b>
<b>98-01-1</b>	<b>furfural</b> EC Number: 202-627-7	<b>0,101-1,00</b>
<b>120-51-4</b>	<b>benzyl benzoate</b> EC Number: 204-402-9	<b>0,101-1,00</b>
<b>93-15-2</b>	<b>methyl eugenol</b> EC Number: 202-223-0	<b>0,01-0,100</b>

**04 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.
- 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.

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**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 of the collected material according to regulations.
- 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.  
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.  
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.  
Wash hands before breaks and at the end of work.
  - 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

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**09 Physical and chemical properties**

**General Information**

**Appearance:**

<b>Form:</b>	viscous
<b>Color:</b>	colourless to dark yellow
<b>Odor:</b>	spicy
<b>Odor threshold:</b>	Not determined.

**Change in condition**

<b>Melting point/Melting range:</b>	-50,0 °C
<b>Boiling point/Boiling range:</b>	270,0 °C
<b>Flash point:</b>	141,0 °C    NFT 60-103 CC
<b>Flammability (solid, gaseous):</b>	Undetermined.
<b>Auto igniting:</b>	Not determined.
<b>Danger of explosion:</b>	Undetermined.
<b>Vapor pressure:</b>	at 20,00 °C    0,0090 mbar
<b>Density:</b>	Not determined.
<b>Relative density</b>	1,0420 1,065 D20/20
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	at 20,00 °C    2,30 g/l
<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**

<b>8000-34-8</b>	<b>Syzygium aromaticum (L.) Merr. &amp; L.M.Perry (Syn : Eugenia caryophyllus (Sprengel) Bullock et S. Harrison)</b>
	Oral, LD50: 1370 mg/kg (rat) (calculated) Dermal, LD50: 1200 mg/kg (Rabbit) (calculated)
<b>97-53-0</b>	<b>eugenol</b>
	Oral, LD50: 1930 mg/kg (rat)
<b>87-44-5</b>	<b>caryophyllene</b>
	Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)
<b>1139-30-6</b>	<b>epoxycaryophyllene</b>
	Oral, LD50: >5000 mg/kg (rat) (Moreno 1978)
<b>97-54-1</b>	<b>isoeugenol</b>
	Oral, LD50: 1560 mg/kg (rat)

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**119-36-8 methyl salicylate**

Oral, LD50: 887 mg/kg (rat)

**98-01-1 2-furaldéhyde**

Oral, LD50: 65 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)

**93-15-2 methyl eugenol**

Oral, LD50: 810 mg/kg (rat) (Beroza and al., 1975)

- Primary irritant effect:
- on the skin:  
No irritant effect.
- on the eye:  
No irritating effect.
- Sensitization:

**120-51-4 benzyl benzoate**

Sensitization, NESIL: 59000 ug/cm<sup>2</sup> (human being) (Standard IFRA)

- Subacute to chronic toxicity:

**87-44-5 caryophyllene**

Oral, NOAEL: 700 mg/kg (rat) (90 days Schmitt 2016)

- OSHA-Ca (Occupational Safety & Health Administration)  
Substance is not listed.

## 12 Ecological information

- Aquatic toxicity:

**8000-34-8 Syzygium aromaticum (L.) Merr. & L.M.Perry (Syn :**

**Eugenia caryophyllus (Sprengel) Bullock et S.**

**Harrison)**

CE50/48h: 1,9 mg/l (daphnia) (QSAR)  
ErC50(0-72h): 41 mg/l (algae) (QSAR)  
96h-LC50: 3,2 mg/l (fish) (calculated)

**93-15-2 methyl eugenol**

CE50/48h: 38 mg/l (daphnia) (Ministry of the Environment of Japan 2018)  
ErC50(0-72h): 22 mg/l (algae) (Ministry of the Environment of Japan 2018)  
96h-LC50: 14 mg/l (fish) (Ministry of the Environment of Japan 2018)

- 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.

## 13 Disposal considerations

- Waste treatment methods
- Recommendation:  
Must be specially treated adhering to official regulations.
- Uncleaned packagings:
- Recommendation:  
Disposal must be made according to official regulations.

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**14 Transport information**

- UN-Number  
**DOT** Void
- ADR** Void
- IMDG** Void
- IATA** Void
- UN proper shipping name  
**DOT** Void
- ADR** Void
- IMDG** Void
- IATA** Void
- Transport hazard class(es)  
**DOT**
- Class** Void
- ADR**
- Class** Void
- IMDG**
- Class** Void
- IATA**
- Class** Void
- Packing group  
**DOT** Void
- ADR** Void
- IMDG** Void
- IATA** Void
  
- Environmental hazards:  
Not applicable.
  
- Special precautions for user  
Not applicable.
  
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
Not applicable.
  
- Transport/Additional information:  
Not applicable.

**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

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H226	Flammable liquid and vapor.
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.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
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**

16.12.2019

- **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.**