# CHEMICAL SAFETY DATA SHEET

*according to 2020/878/EC (1907/2006/EC Article 31)*

2881900

Reviewed on: 03.06.2024
Printing date: 03.06.2024

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

1.1 Product identifier

- Trade name:
  TURMERIC MADA ORGANIC OIL FFL
- Article number:
  B336F
- CAS Number:
  8024-37-1
- EC Number:
  283-882-1
- No CAS EINECS:
  84775-52-0

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

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

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

GHS02

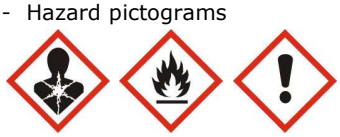
Flam. Liq. 3 - H226 Flammable liquid and vapour.

GHS07

Skin Sens. 1 - H317 May cause an allergic skin reaction.
Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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



GHS08 GHS02 GHS07

- Signal word
  Danger
- Hazard statements
  H226 Flammable liquid and vapour.
  H304 May be fatal if swallowed and enters airways.
  H317 May cause an allergic skin reaction.
  H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements
  P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT:
Not applicable.
- vPvB:
Not applicable.
- Determination of endocrine-disrupting properties
None of the ingredients is listed.

## SECTION 03: Composition/information on ingredients

3.1 Substances

| CAS No. | Description |
|---|---|
| 8024-37-1 | Curcuma longa L. |

- Identification number(s)
- EC number:
283-882-1

- Dangerous components:

| CAS Number | | % |
|---|---|---|
| **99-83-2** | **Alpha phellandrene**<br>EC number: 202-792-5<br>Asp. Tox. 1 - H304; Flam. Liq. 3 - H226 | **5,001-10,00** |
| **470-82-6** | **Eucalyptol**<br>EC number: 207-431-5<br>Flam. Liq. 3 - H226; Skin Sens. 1B - H317 | **1,001- 5,000** |
| **586-62-9** | **TERPINOLENE**<br>EC number: 209-578-0<br>Asp. Tox. 1 - H304; Skin Sens. 1B - H317; Aquatic Acute 1 - H400 (M=1), Aquatic Chronic 1 - H410 (M=1) | **0,101-1,000** |
| **99-87-6** | **p-cymene**<br>EC number: 202-796-7<br>Acute Tox. 3 - H331; Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Aquatic Chronic 2 - H411 | **0,101-1,000** |
| **5989-27-5** | **d-limonene**<br>EC number: 227-813-5<br>Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Skin Irrit. 2 - H315, Skin Sens. 1B - H317; Aquatic Acute 1 - H400 (M=1); Aquatic Chronic 3 - H412 | **0,101-1,000** |
| **87-44-5** | **BETA-CARYOPHYLLENE**<br>EC number: 201-746-1<br>Asp. Tox. 1 - H304; Skin Sens. 1B - H317 | **0,101-1,000** |
| **80-56-8** | **ALPHA-PINENE**<br>EC number: 201-291-9 | **0,101-1,000** |

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Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Skin Sens. 1B - H317

**99-86-5** **1-isopropyl-4-methylcyclohexa-1,3-diene** **0,101-1,000**
EC number: 202-795-1
Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Acute Tox. 4 - H302, Skin Sens. 1 - H317; Aquatic Chronic 2 - H411

**127-91-3** **BETA-PINENE** **0,101-1,000**
EC number: 204-872-5
Asp. Tox. 1 - H304; Flam. Liq. 3 - H226; Skin Irrit. 2 - H315, Skin Sens. 1B - H317

## 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.



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## 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.
Inform respective authorities in case of seepage into water course or sewage system.

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
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

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 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.
  Prevent any seepage into the ground.
  Use only receptacles specifically permitted for this substance/ product.
- Information about storage in one common storage facility:
  Not required.
- 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.
- Additional information:
  The lists valid during the making were used as basis.

8.2 Exposure controls
- Individual protection measures, such as 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.
  Avoid contact with the skin.
- Respiratory protection:
  Use suitable respiratory protective device in case of insufficient ventilation.
- Protection of hands:

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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/face protection
  Safety glasses
- Body protection:
  Impervious protective clothing
  Boots

## SECTION 09: Physical and chemical properties

| | |
|---|---|
| **9.1 Information on basic physical and chemical properties** | |
| **General Information** | |
| **Physical state** | Solid |
| **Colour:** | light yellow to dark yellow |
| **Odour:** | fresh |
| **Odour threshold:** | Not determined. |
| **Boiling point or initial boiling point and boiling range** | Not determined. |
| **Flammability** | Not determined. |
| **Lower and upper explosion limit** | |
| **Lower:** | Not determined. |
| **Upper:** | Not determined. |
| **Flash point:** | >= 60,0 °C NFT 60-103 CC |
| **Decomposition temperature:** | Not determined. |
| **pH** | Not applicable. |
| **Viscosity:** | |
| **Kinematic viscosity** | Not applicable. |
| **Dynamic:** | Not applicable. |
| **Solubility** | |
| **water:** | Not determined. |
| **Partition coefficient n-octanol/water (log value)** | Not determined. |
| **Vapour pressure:** | Not applicable. |
| **Density and/or relative density** | |
| **Density:** | Not determined. |
| **Relative density** | 0,9220 0,945 D20/20 not available |
| **Vapour density** | Not applicable. |
| **9.2 Other information** | No further relevant information available. |
| **Appearance:** | |
| **Form:** | fluid |
| **Important information on protection of health and environment, and on safety.** | |
| **Auto-ignition temperature:** | Not determined. |
| **Explosive properties:** | Not determined. |
| **Solvent content:** | |
| **Solids content:** | 0,00 % |
| **Change in condition** | |
| **Evaporation rate** | Not applicable. |

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| **Information with regard to physical hazard classes** | |
|---|---|
| **Explosives** | not applicable |
| **Flammable gases** | not applicable |
| **Aerosols** | not applicable |
| **Oxidising gases** | not applicable |
| **Gases under pressure** | not applicable |
| **Flammable liquids** | Flammable liquid and vapour. |
| **Flammable solids** | not applicable |
| **Self-reactive substances and mixtures** | not applicable |
| **Pyrophoric liquids** | not applicable |
| **Pyrophoric solids** | not applicable |
| **Self-heating substances and mixtures** | not applicable |
| **Substances and mixtures, which emit flammable gases in contact with water** | not applicable |
| **Oxidising liquids** | not applicable |
| **Oxidising solids** | not applicable |
| **Organic peroxides** | not applicable |
| **Corrosive to metals** | not applicable |
| **Desensitised explosives** | not applicable |

## SECTION 10: Stability and reactivity

10.1 Reactivity
No further relevant information available.

10.2 Chemical stability

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 hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity
- LD/LC50 values relevant for classification:

ISO LD/LC

**99-83-2 Alpha phellandrene**
Oral, LD50: > 5700 mg/kg (rat) (Moreno 1972)

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

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

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

**99-86-5 ALPHA-TERPINENE**
Oral, LD50: 1680 mg/kg (ATE)
- Primary irritant effect:
- Skin corrosion/irritation
No irritant effect.

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- Serious eye damage/irritation
  No irritating effect.
- Respiratory or skin sensitisation
  Sensitization possible through skin contact.
- Germ cell mutagenicity

**470-82-6 Eucalyptol**
OECD 471 AMES: NEGATIVE (in vitro) (Haworth, 1983)

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

- Carcinogenicity
  Not determined.
- Reproductive toxicity
  Not determined.
- STOT-single exposure
  Not determined.
- STOT-repeated exposure
  Not determined.
- Aspiration hazard
  May be fatal if swallowed and enters airways.
  May be fatal if swallowed and enters airways.
- Subacute to chronic toxicity:
  Not determined.
- 11.2 Information on other hazards
- Endocrine disrupting properties
  None of the ingredients is listed.

## SECTION 12: Ecological information

12.1 Toxicity
- Aquatic toxicity:

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

**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.

12.5 Results of PBT and vPvB assessment
- PBT:
  Not applicable.
- vPvB:
  Not applicable.

12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.

12.6 Other adverse effects
No further relevant information available.
- Ecotoxical effects:
  Not determined.
- Remark:
  Harmful to fish
- Additional ecological information:
- General notes:
  Harmful to aquatic organisms
  The material is harmful to the environment.



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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 or ID number

| | |
|---|---|
| . **ADR** | Not classified |
| . **IMDG** | Not classified |
| . **IATA** | Not classified |

14.2 UN proper shipping name

| | |
|---|---|
| . **ADR** | Not classified |
| . **IMDG** | Not classified |
| . **IATA** | Not classified |

14.3 Transport hazard class(es)

| | |
|---|---|
| . **ADR** | |
| . **Class** | Not classified |
| . **IMDG** | |
| . **Class** | Not classified |
| . **IATA** | |
| . **Class** | Not classified |

14.4 Packing group

| | |
|---|---|
| . **ADR** | Not classified |
| . **IMDG** | Not classified |
| . **IATA** | Not classified |

14.5 Environmental hazards:
Not applicable.

14.6 Special precautions for user
Not applicable.

14.7 Maritime transport in bulk according to IMO instruments
Not applicable.

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II
  None of the ingredients is listed.
- REGULATION (EU) 2019/1148
- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
  None of the ingredients is listed.
- Annex II - REPORTABLE EXPLOSIVES PRECURSORS
  None of the ingredients is listed.
- Regulation (EC) No 273/2004 on drug precursors
  None of the ingredients is listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
  None of the ingredients is listed.

- National regulations:

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- Technical instructions (air):
- Class Share in %
  I

- Waterhazard class:
  Generally not hazardous for water.

15.2 Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

## 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. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H331 | Toxic if inhaled. |
| 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.