

# CHEMICAL SAFETY DATA SHEET

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

2336703

Reviewed on: 30.07.2025  
 Printing date: 30.07.2025

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

### 1.1 Product identifier

- Trade name:  
OREGANO GREEN FR ORGANIC OIL
- Article number:  
B707
- CAS Number:  
336185-21-8
- EC Number:  
281-670-3
- No CAS EINECS:  
84012-24-8

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

Application of the substance / the preparation  
 Perfume ingredient  
 Cosmetic ingredient  
 Flavouring agent  
 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



GHS06

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



GHS08

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



GHS07

Acute Tox. 4 - H302 Harmful if swallowed.  
 Skin Irrit. 2 - H315 Causes skin irritation.  
 Eye Irrit. 2 - H319 Causes serious eye irritation.  
 Skin Sens. 1 - H317 May cause an allergic skin reaction.



GHS09

Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

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

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- GHS06 GHS08 GHS09
- Signal word  
 Danger
  - Hazard statements  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H311 Toxic in contact with skin.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H411 Toxic to aquatic life with long lasting effects.
  - Precautionary statements  
 P261 Avoid breathing dust/fume/gas/mist/vapours/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.

- 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
336185-21-8	Origanum vulgare subsp. hirtum (Link) letsw.
<ul style="list-style-type: none"> <li>• Identification number(s)</li> <li>• EC number:              281-670-3</li> </ul>	

### • Dangerous components:

CAS Number		%
<b>499-75-2</b>	<b>carvacrol</b> EC number: 207-889-6 ⚠ Skin Corr. 1B - H314, Eye Dam. 1 - H318; ⚠ Acute Tox. 4 - H302, Skin Sens. 1B - H317	<b>50,001-100</b>
<b>99-87-6</b>	<b>p-cymene</b> EC number: 202-796-7 ⚠ Acute Tox. 3 - H331; ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Aquatic Chronic 2 - H411	<b>5,001-10,00</b>
* <b>99-85-4</b>	<b>p-Mentha-1,4-diene</b> EC number: 202-794-6 ⚠ Flam. Liq. 3 - H226; ⚠ Repr. 2 - H361; ⚠ Aquatic Chronic 2 - H411	<b>5,001-10,00</b>
<b>89-83-8</b>	<b>thymol</b> EC number: 201-944-8 ⚠ Skin Corr. 1B - H314, Eye Dam. 1 -	<b>5,001-10,00</b>

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	H318;  Acute Tox. 4 - H302;  Aquatic Chronic 2 - H411	
87-44-5	<b>BETA-CARYOPHYLLENE</b> EC number: 201-746-1  Asp. Tox. 1 - H304;  Skin Sens. 1B - H317	1,001- 5,000
123-35-3	<b>Myrcene</b> EC number: 204-622-5  Asp. Tox. 1 - H304;  Flam. Liq. 3 - H226;  Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	1,001- 5,000
99-86-5	<b>1-isopropyl-4-methylcyclohexa-1,3-diene</b> 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	1,001- 5,000
80-56-8	<b>ALPHA-PINENE</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	0,101-1,000
* 562-74-3	<b>4-Carvomenthenol</b> EC number: 209-235-5  Acute Tox. 4 - H302, Acute Tox. 4 - H332, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317, STOT SE 3 - H336	0,101-1,000
3391-86-4	<b>1-Octen-3-ol</b> EC number: 222-226-0  Acute Tox. 3 - H301;  Acute Tox. 4 - H332, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317	0,101-1,000
5989-27-5	<b>d-limonene</b> 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 (M=1); Aquatic Chronic 3 - H412	0,101-1,000
78-70-6	<b>LINALOOL</b> EC number: 201-134-4  Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	0,101-1,000
127-91-3	<b>BETA-PINENE</b> EC number: 204-872-5  Asp. Tox. 1 - H304;  Flam. Liq. 3 - H226;  Skin Irrit. 2 - H315, Skin Sens. 1B - H317	0,101-1,000
79-92-5	<b>camphene</b> EC number: 201-234-8	0,101-1,000

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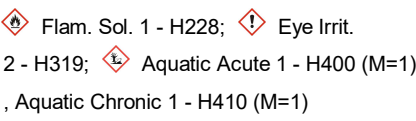
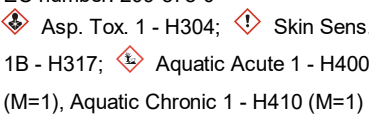
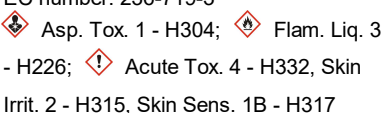
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<b>586-62-9</b>	<p>  </p> <p><b>TERPINOLENE</b></p> <p>EC number: 209-578-0</p> <p>  </p>	<b>0,101-1,000</b>
	<p><b>13466-78-9</b></p> <p><b>delta-3-Carene</b></p> <p>EC number: 236-719-3</p> <p>  </p>	

## SECTION 04: First aid measures

### 4.1 Description of first aid measures

- **General information:**  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
In case of irregular breathing or respiratory arrest provide artificial respiration.  
Seek immediate medical advice.
- **After inhalation:**  
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:**  
Call for a doctor immediately.
- **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:**  
CO<sub>2</sub>, 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.  
Prevent formation of aerosols.  
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.  
Store protective clothing separately.  
Do not inhale gases / fumes / aerosols.  
Do not inhale dust / smoke / mist.  
Avoid contact with the eyes.

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- Respiratory protection:  
Use suitable respiratory protective device in case of insufficient ventilation.  
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.
- 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/face protection  
Safety glasses  
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	Liquid
Colour:	yellow to dark brown
Odour:	characteristic
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:	63,0 °C NFT 60-103 CC
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Not determined.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	Not determined.
Relative density	0,9300 0,960 D20/20
Vapour density	Not determined.

### 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.

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<b>Solvent content:</b>	
<b>Solids content:</b>	0,00 %
<b>Change in condition</b>	
<b>Evaporation rate</b>	Not determined.
<b>Information with regard to physical hazard classes</b>	
<b>Explosives</b>	not applicable
<b>Flammable gases</b>	not applicable
<b>Aerosols</b>	not applicable
<b>Oxidising gases</b>	not applicable
<b>Gases under pressure</b>	not applicable
<b>Flammable liquids</b>	not applicable
<b>Flammable solids</b>	not applicable
<b>Self-reactive substances and mixtures</b>	not applicable
<b>Pyrophoric liquids</b>	not applicable
<b>Pyrophoric solids</b>	not applicable
<b>Self-heating substances and mixtures</b>	not applicable
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	not applicable
<b>Oxidising liquids</b>	not applicable
<b>Oxidising solids</b>	not applicable
<b>Organic peroxides</b>	not applicable
<b>Corrosive to metals</b>	not applicable
<b>Desensitised explosives</b>	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  
Harmful if swallowed.
  - LD/LC50 values relevant for classification:

ISO LD/LC

**336185-21-8**      **Origanum vulgare subsp. hirtum (Link) letsw.**

Oral, LD50: 1850 mg/kg (rat)  
Dermal, LD50: 320 A 640 mg/kg (Rabbit)

**499-75-2**      **carvacrol**

Oral, LD50: 810 mg/kg (rat)

**89-83-8**      **thymol**

Oral, LD50: 980 mg/kg (rat)

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

**99-86-5 ALPHA-TERPINENE**

Oral, LD50: 1680 mg/kg (ATE)

**3391-86-4 1-Octen-3-ol**

Oral, LD50: 340 mg/kg (rat)

Dermal, LD50: 3300 mg/kg (Rabbit)

**5989-27-5 (R)-p-mentha-1,8-diene**

Oral, LD50: 4400 mg/kg (rat)

**78-70-6 LINALOOL**

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)

**13466-78-9 delta-3-Carene**

Oral, LD50: 4800 mg/kg (rat) (Moreno 1975)

- Primary irritant effect:
- Skin corrosion/irritation  
Irritant to skin and mucous membranes.  
Causes skin irritation.
- Serious eye damage/irritation  
Irritating effect.  
Causes serious eye irritation.
- Respiratory or skin sensitisation  
Sensitization possible through skin contact.
- Germ cell mutagenicity

**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)

- Carcinogenicity
- **78-70-6 LINALOOL**  
Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007)  
Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)
- 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:
- **87-44-5 BETA-CARYOPHYLLENE**  
Oral, NOAEL: 700 mg/kg (rat) (90 days Schmitt 2016)
- 11.2 Information on other hazards
- Endocrine disrupting properties  
None of the ingredients is listed.

## SECTION 12: Ecological information

### 12.1 Toxicity

- Aquatic toxicity:
  - 336185-21-8 *Origanum vulgare* subsp. *hirtum* (Link) letsw.  
CE50/48h: 21,995 mg/l (daphnia) (OECD 202 / EU Method C.2)  
ErC50(0-72h): 13 mg/l (algae) (OECD 201)  
96h-LC50: 29,173 mg/l (fish) (OECD 203 / EU Method C.1)
  - 99-87-6 p-cymene  
LD50: 1,63 mg/l (fish) (OECD 203)
  - 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

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LD50: 0,71 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)

**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.

**12.7 Other adverse effects**

No further relevant information available.

- Ecotoxicological effects:  
Not determined.
- Remark:  
Toxic for fish
- Additional ecological information:
- General notes:  
Toxic for aquatic organisms  
The material is harmful to the environment.

**SECTION 13: Disposal considerations**
**13.1 Waste treatment methods**

- Recommendation  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
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 UN2810
- IMDG UN2810
- IATA UN2810

**14.2 UN proper shipping name**

- ADR 2810 TOXIC LIQUID, ORGANIC, N.O.S. (ORIGANUM VULGARE SUBSP.)
- IMDG TOXIC LIQUID, ORGANIC, N.O.S. (ORIGANUM VULGARE SUBSP.)
- IATA TOXIC LIQUID, ORGANIC, N.O.S. (ORIGANUM VULGARE SUBSP.)

**14.3 Transport hazard class(es)**

- ADR
- Class 6.1 (T1) Toxic substances.

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. **Label**

**6.1**



. **IMDG**

. **Class**

6.1 Toxic substances.

. **Label**

**6.1**



. **IATA**

. **Class**

6.1 Toxic substances.

. **Label**

**6.1**



14.4 Packing group

. **ADR**

III

. **IMDG**

III

. **IATA**

III

14.5 Environmental hazards:

. **Marine pollutant:** Yes

. **Danger code (Kemler):** 60

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

14.6 Special precautions for user

Warning: Toxic substances.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

• Transport/Additional information:

. **ADR**

. **Excepted quantities (EQ):** E1

. **Limited quantities (LQ)** 5L

. **Transport category** 2

. **Tunnel restriction code** E

. **IMDG**

. **Limited quantities (LQ)** 5L

. **Excepted quantities (EQ)** E1

• UN "Model Regulation":

UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (ORIGANUM VULGARE SUBSP.), 6.1, III, ENVIRONMENTALLY HAZARDOUS

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## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- \* PFAS
  - \* None of the ingredients is listed.
  - 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:

- Technical instructions (air):
- Class Share in %  
I 0,03

- Waterhazard class:  
Water hazard class 1 (Self-assessment): slightly 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.
H228	Flammable solid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
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:

*(continued on page 12)*

# CHEMICAL SAFETY DATA SHEET

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

2336703

Reviewed on: 30.07.2025  
Printing date: 30.07.2025

**PRODUCT : OREGANO GREEN FR ORGANIC OIL**
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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.