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## MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No 1272 of 2008 and  
Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2017/1510

### Organic Oregano Oil

Version 01

Date of compilation: 18.10.2019

Date of publishing: 28.10.2019

#### 1. Identification of the substance/mixture and the company/undertaking

##### 1.1. Product Identifiers

Product name : Organic Oregano Oil  
Substance name (INCI) : -  
Botanic name : Origanum Vulgare Ssp.Hirtum  
CAS No : 8007-11-2  
EO No : -  
Biological origin : Produced using the method of steam distillation.

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

Use of substance/mixture : Used in perfumery and cosmetics by itself or as a formulation constituent, a part of composition.  
Recommended restrictions on use : No data available

##### 1.3. Details of the supplier of the safety data sheet

Manufacturer : ALTEYA ORGANICS LLC  
Mailing address/Postal code : 6167, village of Yagoda,  
1, Rozovarna St.

##### Country identifier/

Postal code/city or town : Bulgaria

Telephone/Mobile/Fax : +359 700 15 502

**E-mail of the competent person responsible for the Safety Data Sheet** : [salesbg@alteya.com](mailto:salesbg@alteya.com)

**National contact person** : Kaloyan Stoev



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#### **1.4. Emergency telephone number**

Clinic of Toxicology at MPHATEM N.I. Pirogov

Emergency telephone number: 02 9154409; (regular working time, Saturdays and Sundays excluded) or 02 9154 346 (24h service, all week)

e-mail: [poison\\_centre@mail.orbitel.bg](mailto:poison_centre@mail.orbitel.bg)

<http://www.pirogov.net>

### **2. Hazards Identification**

#### **2.1. Classification of the substance or mixture**

##### **2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP)**

<b>Classification according to GHS</b>				
<b>Chapter</b>	<b>Subsection</b>	<b>Class of hazard</b>	<b>Class of hazard and category of hazard</b>	<b>Hazard statements</b>
3.1.	Oral	Acute toxicity	(Acute Tox. 4)	H302
3.1.	Derm.	Acute toxicity	(Acute Tox. 3)	H311
3.2	Skin	Skin irritation	Corrosion/irritation 2	H315
3.3	Eye	Eye irritation	(Corrosion)Damage/Irritation. 2A	H319

##### **2.1.2. Additional information:**

For full text of hazard statements and EC specific hazard statements: see SECTION 16.

#### **2.2. Label Elements**

Designation according Regulation (EC) No 1272/2008 [CLP]

##### **Hazard pictograms**



GHS06

Signal word : Hazardous

**Hazard statements** : H302 Harmful if swallowed

H311 Toxic if skin contact

H315 Causes skin irritation

H319 May cause allergic skin reaction

EUH208 Contains: Geraniol, Linalool, Limonene, Coumarin, Eugenol.  
May cause allergic reaction.



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### **Safety recommendations**

Safety recommendations

- General	:	P102	Keep out of reach of children
Safety recommendations			
- Prevention	:	P270	Do not eat, drink or smoke while handling the product.
	:	P273	Avoid release to environment

Safety recommendations

- As a reaction	:	P301 + P312	IF SWALLOWED: in case of sickness call TOXICOLOGY CENTRE /a physician/
	:	P305+ P351+	If eye contact: Rinse thoroughly with water for several minutes. Remove contact lenses if there are such and if possible. Continue rinsing.
	:	P338	P338
	:	P301 + P310	IF SWALLOWED: immediately call TOXICOLOGY CENTRE /a physician/
	:	P 330	Rinse the mouth.
	:	P302 + P352	IF SKIN CONTACT: wash with plenty of soap and water.
	:	P405	Keep locked up.

Safety recommendations

- In discharge	:	P501	Dispose of contents / container in an approved place and in compliance with the local and national regulations.
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### **2.3. Other hazards**

No other information available.

The substance meets vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII

### **3. Composition/information on ingredients**

#### **3.1. Substances/ Mixture**

<b>INGRIDIENT</b>	<b>IDENTIFIERS</b>	<b>%</b>	<b>CLASSIFICATION</b>
<i>ORIGANUM OIL</i>	EINECS NO: - CAS NO: 8007-11-2	100,0	<i>Flam. Liq.4 H227</i> <i>Acute Tox.3; H311</i> <i>Acute Tox.4; H302</i> <i>Skin Irrit.2; H315</i>



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			<i>Eye Irrit.2; H319</i>
<i>CARVACROL</i>	<i>EINECS NO: 207-889-6</i> <i>CAS NO: 499-75-2</i>	<i>30-95,0</i>	<i>Acute Tox. 4 - H302,</i> <i>Skin Irrit. 2 -H315,</i> <i>Eye Irrit. 2 - H319,</i> <i>Skin Sens. 1B -H317</i>
<i>4-CARVOMENTHENOL</i>	<i>EINECS NO: 209-235-5</i> <i>CAS NO: -</i>	<i>1,0 – 5,0</i>	<i>Acute Tox. 4 - H302</i> <i>Skin Irrit. 2 -H315</i> <i>Eye Irrit. 2 - H319</i>
<i>p-CYMENE</i>	<i>EINECS NO: 202-796-7</i> <i>CAS NO: 99-87-6</i>	<i>10,0 – 20,0</i>	<i>Asp. Tox. 1 – H304</i> <i>Flam. Liq. 3 – H226</i> <i>Aquatic Chronic 2 – H411</i>
<i>THYMOL</i>	<i>EINECS NO: 201-944-8</i> <i>CAS NO: 89-83-8</i>	<i>5,0 – 10,0</i>	<i>Skin Corr. 1B - H314,</i> <i>Eye Dam. 1 -H318;</i> <i>Acute Tox. 4 - H302;</i> <i>Aquatic Chronic 2 - H411</i>
<i>Beta - MYRCENE</i>	<i>EINECS NO: 204-622-5</i> <i>CAS NO: 123-35-3</i>	<i>1,0 – 5,0</i>	<i>Flam. Liq. 3 - H226</i> <i>Asp. Tox. 1 – H304</i> <i>Aquatic Chronic 2 -H411</i>
<i>CARYOPHYLLENE OXIDE</i>	<i>EINECS NO: 214-519-7</i> <i>CAS NO: 1139-30-6</i>	<i>0,1 – 1,0</i>	<i>Aquatic Chronic 2 -H411</i>
<i>CAMPHENE</i>	<i>EINECS NO: 209-275-3 /</i> <i>201-234-8</i> <i>CAS NO: 565-00-4 /</i> <i>79-92-5</i>	<i>0.1 – 1.0</i>	<i>Asp. Tox. 1, H304</i> <i>Eye Irrit. 2, H319</i> <i>Aquatic Acute 1, H400</i>
<i>beta CARYOPHLLENE</i>	<i>EINECS NO: 201-746-1</i> <i>CAS NO: 87-44-5</i>	<i>0,1 – 4,87</i>	<i>Asp. Tox. 1 – H304</i>
<i>FENCHYL ALCOHOL</i>	<i>EINECS NO: 216-639-5</i> <i>CAS NO: 1632-73-1</i>	<i>5,0 - 12,8%</i>	<i>Skin Irrit. 2 (H315)</i> <i>Eye Irrit. 2A (H319)</i> <i>Asp. Tox, H335</i>
<i>D-PULEGONE</i>	<i>EINECS NO: 201-943-2</i> <i>CAS NO: 89-82-7</i>	<i>0,1 – 1,0</i>	<i>Acute Tox. 4 - H302</i>
<i>LINALOOL</i>	<i>EINECS NO: 201-134-4</i> <i>CAS NO: 78-70-6</i>	<i>0,1 - 1,7</i>	<i>Acute Tox. Oral 5 (H303)</i> <i>Eye Irrit. 2A (H319)</i> <i>Flam. Liq. 4 (H227)</i> <i>Aquatic Acute 3 (H402)</i> <i>Skin Sens. 1B (H317)</i> <i>Skin Irrit. 2 (H315)</i>



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<b>GERANIOL</b>	<i>EINECS NO: 203-377-1</i> <i>CAS NO: 106-24-1</i>	<i>0,01 - 0,2</i>	<i>Skin Irrit. 2 – H315</i> <i>Eye Dam. 1 – H318</i> <i>Skin Sens. 1 – H317</i>
<b>EUGENOL</b>	<i>EINECS NO: 202-589-1</i> <i>CAS NO: 97-53-0</i>	<i>0,01 - 0,2</i>	<i>Flam. Liq. 3 – H226</i> <i>Eye Irrit. 2 - H319</i> <i>Aquatic Chronic 4 – H413</i> <i>Acute Tox. 4, H302</i> <i>Skin Irrit. 2 – H315</i> <i>Skin Sens. 1 – H317</i>
<b>COUMARIN</b>	<i>EINECS NO: 202-086-7</i> <i>CAS NO: 91-64-5</i>	<i>0,01 &lt; 0,1</i>	<i>Oral(Cat. 3), H301</i>
<b>LIMONENE</b>	<i>EINECS NO: 227-813-5</i> <i>CAS NO: 5989-27-5</i>	<i>0,1 – 1,0</i>	<i>Flam. Liq. 3 – H226</i> <i>Skin Irrit. 2 – H315</i> <i>Skin Sens. 1 – H317</i> <i>Asp. Tox. 1 – H304</i> <i>Aquatic Acute 1 – H400</i> <i>Aquatic Chronic 1 – H410</i>

#### 4. First Aid Measures

##### 4.1. Description of first aid measures

- General notes : Immediately remove the clothing contaminated with the product. The symptoms of poisoning may appear several hours later; so health surveillance for at least 48 hours is recommended. Seek medical advice without delay. Show the physician this Material Safety Data Sheet for safe examination.
- Following inhalation : Immediately remove the exposed individual to fresh air. In case the person is not breathing administer artificial respiration. Consult a physician.
- Following skin contact : Gently and thoroughly wash the contaminated skin with flowing water and non-abrasive soap. Be especially careful while cleaning the folds, fissures, groins. Seek medical advice if irritation persists. Wash the contaminated clothing before reuse.
- Following eye contact : Immediately start rinsing the eyes with plenty of water for at least 15 min. Remove the contact lenses. Seek medical advice.



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- Following ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse the mouth with water. Consult a physician.

- Self-protection of first aid provider : No data available.

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

Symptoms : Shortness of breath, cough. Causes eye irritation. Causes skin irritation. Gastric or intestinal disorders when ingested.

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

Treatment : In case of ingestion or vomiting possible penetration in lungs. Later surveillance for pneumonia or pulmonary edema. Show the physician this Material Safety Data Sheet.

### **5. Fire-fighting Measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media : In case of small (initial) fires use such extinguishing media as "alcohol" foam, dry chemical powder or carbon dioxide. In case of large fires plenty of water in the form of aerosol or spray should be used staying as far as possible from the fire. The powerful water jet may not have the required effect. Cool all affected containers using flowing water.

Unsuitable extinguishing media : Water.

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

Hazardous combustion products : Flammable liquid. In the process of heating or in case of fire toxic gases may be generated.



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Specific hazards : Exposed to heat (fire) the containers may get pressurized.  
during fire-fighting

### 5.3. Advice for firefighters:

Special protective equipment for firefighters : Avoid inhaling smoke in case of fire and/or explosion.  
Wear appropriate protective breathing equipment.  
Use complete protective equipment.

Additional data : Use water jet to cool the containers that are not opened yet. Eliminate all ignition sources if it is safe to do it.

## 6. Accidental Release Measures

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

#### 6.1.1. For personnel not responsible for emergencies

Personal precautionary measures, protective equipment and emergency procedures : Wear personal protective clothing as described in SECTION 8 of this Material Safety Data Sheet.  
Handle the product using protective gloves, resistant to the specified chemicals.  
Avoid skin contact and inhalation of vapors or smoke.  
After spillage maintain adequate ventilation in operating area.

#### 6.1.2. For the persons responsible for emergencies

Wear protective facial mask. Avoid inhalation vapors, aerosols or gas. Provide adequate ventilation. Remove all ignition sources. Avoid eye and skin contact. Evacuate personnel to safe areas. Beware of vapors that accumulate to explosive concentrations. The vapors may accumulate in lower areas. For personal protection see SECTION 8.

### 6.2. Environmental precautions

Environmental precautions : Avoid subsequent leakage or spillage if safe. Prevent discharge in sewer systems.



### **6.3. Methods and materials for containment and cleaning up**

**6.3.1. For containment** : Limit using non-combustible absorbing materials as sand, soil, vermiculite, diatomaceous earth in drums for waste disposal.

**6.3.2. For cleanup** : Collect using a vacuum cleaner with electrical protection, or a wet brush and place in container to dispose following the local regulations. (See SECTION 13). For disposal keep in appropriate closed containers.

**6.3.3. More information** : Wear personal protective clothing as described in SECTION 8 of this Material Safety Data Sheet. A self contained breathing apparatus should be used to avoid inhaling the product. The recommended protective clothing may not be sufficient; consult a specialist BEFORE handling this product.

### **6.4. Reference to other sections**

For personal protection see SECTION 8.  
For disposal see SECTION 13.

## **7. Handling and Storage**

### **7.1. Precautions for safe handling**

Precautions : Avoid contact with skin and eyes. Avoid inhaling vapor or mist. Store away from ignition sources. Do not smoke. Take precaution to avoid accumulation of static electricity. Keep away from food and drinks. Handle observing good occupational hygiene and safety rules.

Fire-fighting measures : Store away from ignition sources. Do not eat, drink or smoke while handling the product.

Measures to avoid



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transformation into

aerosols and powder : Provide adequate ventilation in the operating area.

Environmental precautions: Prevent penetration in sewer systems or water. In case of penetration in water or sewer systems inform the competent authorities.

Advice on general occupational hygiene : Wash your hands before breaks and at the end of the working day. Avoid eye and skin contact.

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

Technical measures and storage conditions : Store the product in tightly closed original container, in a dry, well ventilated place away from possible ignition sources and protected from light.

Packing materials : Use packing materials preserving the integrity of the product.

Requirements to storage areas or containers: : Store in cool, dry and ventilated premises in closed containers. The opened containers should be carefully closed and positioned up right to prevent leakage.

Storage class : No data available

Recommendations for fire and explosion protection : Not known.

Recommendations for primary storage : Store away from combustible materials.  
Store away from food.  
Store away from oxidizers.

**It is recommended to follow the requirements concerning packing and storage according ISO/TS 210:2014.**



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### 7.3. Specific end use(s)

Recommendations : Before using read the label.

Solutions specific to the industry sector : No data available.

Specific use(s) : Used in perfumery and cosmetics by itself or as a formulation constituent, a part of composition.

## 8. Exposure controls/Personal protection equipment

### 8.1. Control parameters

Occupational exposure limits are determined on the basis of data base of international limit values GESTIS

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### Other occupational exposure limits

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#### Information on monitoring procedures

#### Relevant DNEL-/DMEL-/PNEC and other threshold levels

#### ***DERIVED NO EFFECT LEVEL (DNEL) OR DERIVED MINIMUM EFFECT LEVEL (DMEL): LINALOOL(CAS:78-70-6)***

*FINAL USE:* WORKERS.  
*EXPOSURE METHOD:* DERMAL CONTACT.  
*POTENTIAL HEALTH EFFECTS:* SHORT TERM SYSTEMIC EFFECTS.  
*DNEL:* 5MG/KG BODY WEIGHT/DAY

*EXPOSURE METHOD:* DERMAL CONTACT.  
*POTENTIAL HEALTH EFFECTS:* SHORT TERM LOCAL EFFECTS.  
*DNEL:* 15MG OF SUBSTANCE/CM<sup>2</sup>

*EXPOSURE METHOD:* DERMAL CONTACT.  
*POTENTIAL HEALTH EFFECTS:* LONG TERM SYSTEMIC EFFECTS.  
*DNEL:* 2.5MG/KG BODY WEIGHT/DAY

*EXPOSURE METHOD:* DERMAL CONTACT.  
*POTENTIAL HEALTH EFFECTS:* LONG TERM LOCAL EFFECTS.  
*DNEL:* 15MG OF SUBSTANCE/CM<sup>2</sup>

*EXPOSURE METHOD:* INHALATION.



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**POTENTIAL HEALTH EFFECTS:** **SHORT TERM SYSTEMIC EFFECTS.**

**DNEL:** **16.5MG OF SUBSTANCE/M<sub>3</sub>**

**EXPOSURE METHOD:** **INHALATION.**

**POTENTIAL HEALTH EFFECTS:** **LONG TERM SYSTEMIC EFFECTS.**

**DNEL:** **2.8MG OF SUBSTANCE/M<sub>3</sub>**

**FINAL USE:** **CONSUMERS.**

**EXPOSURE METHOD:** **INGESTION.**

**POTENTIAL HEALTH EFFECTS:** **SHORT TERM SYSTEMIC EFFECTS.**

**DNEL:** **1.2MG/KG BODY WEIGHT/DAY**

**EXPOSURE METHOD:** **INGESTION.**

**POTENTIAL HEALTH EFFECTS:** **LONG TERM SYSTEMIC EFFECTS.**

**DNEL:** **0.2MG/KG BODY WEIGHT/DAY**

**EXPOSURE METHOD:** **DERMAL CONTACT.**

**POTENTIAL HEALTH EFFECTS:** **SHORT TERM SYSTEMIC EFFECTS.**

**DNEL:** **2.5MG/KG BODY WEIGHT/DAY**

**EXPOSURE METHOD:** **DERMAL CONTACT.**

**POTENTIAL HEALTH EFFECTS:** **SHORT TERM LOCAL EFFECTS.**

**DNEL:** **15MG OF SUBSTANCE/CM<sub>2</sub>**

**EXPOSURE METHOD:** **DERMAL CONTACT.**

**POTENTIAL HEALTH EFFECTS:** **LONG TERM SYSTEMIC EFFECTS.**

**DNEL:** **1.25MG/KG BODY WEIGHT/DAY**

**EXPOSURE METHOD:** **DERMAL CONTACT.**

**POTENTIAL HEALTH EFFECTS:** **LONG TERM LOCAL EFFECTS.**

**DNEL:** **15MG OF SUBSTANCE/CM<sub>2</sub>**

**EXPOSURE METHOD:** **INHALATION.**

**POTENTIAL HEALTH EFFECTS:** **SHORT TERM SYSTEMIC EFFECTS.**

**DNEL:** **4.1MG OF SUBSTANCE/M<sub>3</sub>**

**EXPOSURE METHOD:** **INHALATION.**

**POTENTIAL HEALTH EFFECTS:** **LONG TERM SYSTEMIC EFFECTS.**

**DNEL:** **0.7MG OF SUBSTANCE/M<sub>3</sub>**

**PREDICTED NO EFFECT CONCENTRATION (PNEC):**

**LINALOOL(CAS:78-70-6)**

**ENVIRONMENTAL COMPARTMENT:** **SOIL.**

**PNEC:** **0.327MG/KG**



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<i>ENVIRONMENTAL COMPARTMENT:</i>	<i>FRESH WATER.</i>
<i>PNEC:</i>	<i>0.2MG/L</i>
<i>ENVIRONMENTAL COMPARTMENT:</i>	<i>SEA WATER.</i>
<i>PNEC:</i>	<i>0.02MG/L</i>
<i>ENVIRONMENTAL COMPARTMENT:</i>	<i>INTERMITTENT WASTE WATER.</i>
<i>PNEC:</i>	<i>2MG/L</i>
<i>ENVIRONMENTAL COMPARTMENT:</i>	<i>FRESH WATER SEDIMENT.</i>
<i>PNEC:</i>	<i>2.22MG/KG</i>
<i>ENVIRONMENTAL COMPARTMENT:</i>	<i>MARINE SEDIMENT.</i>
<i>PNEC:</i>	<i>0.222MG/KG</i>
<i>ENVIRONMENTAL COMPARTMENT:</i>	<i>WASTE WATER TREATMENTPLANT.</i>
<i>PNEC:</i>	<i>10MG/L</i>

## 8.2. Exposition controls

### 8.2.1. Appropriate engineering control

Measures related to the substance/mixture to prevent exposure during identified uses

:

The description of the appropriate exposition control measures refers to the specified in subsection 1.2 identified uses of the substance or the mixture. This information is sufficient to make it possible for the employer, when appropriate, to assess the risk caused by the presence of the substance or the mixture for the health and safety of employees according to articles 4—6 of Directive 98/24/EC and articles 3—5 of Directive 2004/37/EC.

This information supplements the information presented in SECTION 7.

Provide adequate ventilation. The good practices of personal hygiene are always recommended especially when handling chemicals / oils.

Provide adequate aeration. Wash hands before breaks and at the end of the working day. Remove and wash the contaminated clothing before reusing it.

Avoid contact with eyes and skin. Do not inhale gases



### **8.2.2. Personal protective equipment:**

8.2.2.1. Eyes and face protection: Wear approved protective goggles. (EN 166)

#### 8.2.2.2. Skin protection

##### Hand protection:

Wear chemical resistant gloves (PVC), to avoid skin contact. DIN/EN 374.

The gloves material should be impermeable and resistant to the product / substance / preparation. The manufacturer of the protective gloves should provide information on the exact time of break and it should be observed.

##### Other skin protection:

To avoid any skin contact wear complete protective clothing.

#### 8.2.2.3. Respiratory tract protection

:

Respiratory mask is recommended. NIOSH or European standard EN 149 approved respirator.

#### 8.2.2.4. Thermal hazards

:

There aren't such.

#### 8.2.3. Environmental exposure controls

:

Avoid discharge in drainage waters. To be eliminated by authorized companies only.

#### Measures related to substance/mixture required to avoid exposition

:

Provide adequate ventilation.

#### Training measures related to the avoiding of exposition

:

Training of the staff is organized according to a company schedule.

#### Organization measures to avoid



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exposition : Training of staff

Technical measures to avoid  
exposition : Training of staff

### **Environmental exposition controls**

Basic guidelines : Do not wash-off in surface waters.

## **9. Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

Appearance : Transparent easy flowing liquid  
Color : light yellow to red  
Odor : Specific spicy woody scent.  
Odor threshold : No data provided by our supplier on this matter.  
Carvacrol content in %, not less than : 30,0  
pH : No data available  
Acid value, mg KOH/g : < 1.0  
Freezing point in °C : No data available  
Melting point in °C : No data available  
Boiling point : 239 °C –lit.  
Boiling point / boiling range : No data available



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Ignition point in °C	:	No data available
Evaporation rate	:	No data available
Flammability (solid substance, gas):	:	No data available
Ignition point	:	65,0
Upper flammability/ explosion limit	:	No data available
Lower flammability/ explosion limit	:	No data available
Vapor pressure at 20°C	:	No data available
Solubility(ies)	:	Soluble in alcohol and oils.
Insoluble in	:	Water.
Partition coefficient n-octanol/water Log/Pow	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Explosivity	:	No data available
Oxidizing properties	:	No data available

### **Additional information**

Refractive index at  $n^{20}/d$  : 1,460 - 1.505

Relative density at  $d^{20}$  : 0,900 – 0,940

Optical rotation in ° : -5 up to +5

No other information available.



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## **10. Stability and Reactivity**

### **10.1. Reactivity**

Advice : No data available.

### **10.2. Chemical stability**

Note : Stable at the recommended conditions of handling and storage.

### **10.3. Possible hazardous reactions**

Hazardous reactions : The used empty containers may contain gases from the product that form explosive mixtures with the air. May form explosive mixtures in the air if heated above the explosion point and / or in case of spraying. Toxic fumes may be generated if heated above the decomposition point. Reacts with oxidizers.

### **10.4. Conditions to avoid**

Conditions to avoid : Heat, flames and sparks. Keep away ignition sources – do not smoke.  
Store away from oxidizers.

Thermal decomposition : No data available.

### **10.5. Incompatible materials**

Materials to avoid : Strong oxidizers. Alkali metals, ammonia, peroxides, strong inorganic acids.

### **10.6. Hazardous decomposition products**



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Hazardous decomposition : In case of fire hazardous decomposition products may be generated such as carbon oxide and dioxide

## 11. Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

##### OREGANO OIL (8007-11-2)

**Method** : LD50  
**Species** : rat  
**Exposition routes** : oral  
**Effective dose** : -  
**Period of exposition** : -  
**Results** : > 1850mg/kg

##### LINALOOL(CAS:78-70-6)

ORAL ROUTE: LD50=2200MG/KG  
SPECIES: MOUSE  
OECDGUIDELINE 401(Acute Oral Toxicity)

##### GERANIOL(CAS:106-24-1)

ORAL ROUTE: LD50=4200MG/KG

##### D-LIMONENE(CAS:5989-27-5)

ORAL ROUTE: LD50= 4,400 - 5,10MG/KG  
SPECIES : Rat

Notes : Irritant to skin and mucous membranes.

#### Corrosion/Skin irritation

##### OREGANO OIL (8007-11-2)

**Method** : LD50  
**Species** : rabbit  
**Exposition routes** : dermal  
**Effective dose** : -  
**Period of exposition** : -  
**Results** : > 320 mg/kg

##### LINALOOL(CAS:78-70-6)



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DERMAL ROUTE :  $LD50=5610\text{MG/KG}$

SPECIES: RABBIT

OECD GUIDELINE 402 (ACUTE DERMAL TOXICITY)

**LINALOOL (CAS:78-70-6)**

IRRITATION: AVERAGE SCORE = 1.85

EFFECT OBSERVED : ERYTHEMA SCORE

SPECIES : RABBIT

DURATION OF EXPOSURE : 24H OECD GUIDELINE 404 (ACUTE DERMAL IRRITATION /CORROSION)

**D-LIMONENE (CAS:5989-27-5)**

ORAL ROUTE:  $LD50= > 5000\text{MG/KG}$

SPECIES : Rabbit

**D-LIMONENE (CAS:5989-27-5)**

ORAL ROUTE:  $LD50= > 5,600 - 6000\text{MG/KG}$

SPECIES : Mouse

Notes : Irritant to skin and mucous membranes.

---

**Serious eye damage/irritation**

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Result : Serious eye damage.

May cause irreversible effect on eyes, such as damage of eye tissue or serious physical decay of vision that is not completely reversible by the end of the monitoring period of 21 days.

The serious damage of eyes is characterized with destruction of cornea, lasting opacity of cornea and irtis.

**LINALOOL (CAS:78-70-6)**

CORNEAL HAZE: AVERAGE SCORE = 1

SPECIES: RABBIT

DURATION OF EXPOSURE : 24H OECD GUIDELINE 405 (ACUTE EYE IRRITATION /CORROSION)

IRITIS: AVERAGE SCORE = 0.6

SPECIES : RABBIT

DURATION OF EXPOSURE : 24H OECD GUIDELINE 405 (ACUTE EYE IRRITATION /CORROSION)

CONJUNCTIVAL REDNESS: AVERAGE SCORE = 2.3



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**SPECIES :** RABBIT

**DURATION OF EXPOSURE :** 24h OECD GUIDELINE 405 (ACUTE EYE IRRITATION /CORROSION

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#### **Respiratory or skin sensitization**

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Note : May cause allergic skin reaction.  
Possible sensitization through skin contact.

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#### **Ingestion**

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Note : Harmful if swallowed.

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#### **Mutagenicity of germ cells**

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Note : No data available.

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#### **Carcinogenicity**

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Note : CAS 5989-27-5: IARC group 3: The agent cannot be classified with respect to its carcinogenicity to people.

---

#### **Summary of the assessment of CMR properties**

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Note : No data available

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#### **STOT (specific target organ toxicity) — single exposure**

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Note : No data available

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#### **STOT (specific target organ toxicity) — repeated exposure**

---

Note : No data available

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#### **Aspiration hazard**

---

Note : The aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degree of pulmonary injury.

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#### **Information on possible routes of exposure**

---

Note : No data available

---

#### **Symptoms related to physical, chemical and toxicological characteristics**

---

Note : Toxicological characteristics are not comprehensively studied



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**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Note : Toxicological characteristics are not comprehensively studied

**Interactions**

Note : Toxicological characteristics are not comprehensively studied

**Lack of specific data**

Note : Toxicological characteristics are not comprehensively studied

**Mixtures**

Note : Toxicological characteristics are not comprehensively studied

**Medical consideration**

Note : Persons having rash are directed to dermal specialist to be examined for allergic eczema.

**Other information**

Note : No data available.

**12. Ecological information**

Note : Toxic to aquatic life with long-term effect.  
The product should not be released in channels or water routes.

**12.1. Toxicity**

**Product:**

**Acute (short-term) toxicity:**

**Fish**

LINALOOL(CAS:78-70-6)



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**FISH TOXICITY:**

**DURATION OF EXPOSURE :96H**

**LC50=27.8MG/L**

**SPECIES :ONCORHYNCHUS MYKISS**

**OECDGUIDELINE 203(FISH,ACUTE TOXICITY TEST)**

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### Toxic for Daphnia and other aquatic invertebrates

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**LINALOOL(CAS:78-70-6)**

**CRUSTACEAN TOXICITY**

**DURATION OF EXPOSURE :48H**

**EC50=59MG/L**

**SPECIES :DAPHNIA MAGNA**

**OECDGUIDELINE 202(DAPHNIA SP.ACUTE)**

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### Algae/aquatic plants

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**LINALOOL(CAS:78-70-6)**

**IMMOBILISATION TEST**

**ALGAE TOXICITY:**

**DURATION OF EXPOSURE :96H**

**ECR50=88.3MG/L**

**SPECIES :DESMODESMUS SUBSPICATUS**

**OTHER GUIDELINE**

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### Bacteria

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**Note :** No data available

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### Chronic (long-term) toxicity:

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**Note :** No data available

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### Fish

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**Note :** No data available

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### Shellfish

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**Note :** No data available

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### Algae/water plants

---

**Note :** No data available



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### **Other organisms**

Note : No data available

### **12.2. Persistence and degradability**

#### **Product:**

##### **Abiotic degradation**

Note : No data available

##### **Physical and photo-chemical elimination**

Note : No data available

##### **Biochemical degradation**

Biodegradation : The product is biodegradable above 80%

Exposure time : 2 days

Note : Biodegradable

### **12.3. Bioaccumulation**

#### **Product:**

##### **Partition coefficient n-octanol/water (log Kow)**

Note : No data available

##### **Bioconcentration factor (BCF)**

Notes : Does not accumulate in biological environment

### **12.4. Mobility in soil**

#### **Product:**

##### **Known or predicted distribution in environmental components**

Note : No data available

##### **Surface tension**

Note : No data available

##### **Adsorption/desorption**



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Note : No data available

### **12.5. Results of PBT and vPvB assessment**

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This product doesn't contain substances considered persistent, bioaccumulative or toxic PBT.

#### **Product:**

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#### **Results from PBT and vPvB assessment**

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Notes : No data available

### **12.6. Other adverse effects**

#### **Product:**

---

#### **Biochemical oxygen demand (BOD)**

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Value : No data available

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#### **Chemical oxygen demand (COD)**

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Value : No data available

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#### **Additional ecological information/Mobility in soil**

---

Notes : No data available

---

### **12.7. Additional information**

Notes : Prevent release of products in streams, sewer systems or other water routes.

## **13. Disposal Considerations**

### **13.1. Waste treatment methods**

#### **13.1.1. Disposal of product/packing**

**Codes/designation of waste according to LoW: -**

Product : This material may be burned in chemical incinerator. Submit the non-recyclable solutions left to an authorized company for disposal. Contact an authorized professional service for the disposal of this material.



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Contaminated packaging material : Discharge it as unused product.

European Catalogue waste number : No waste code can be given to this product according to the European Waste Catalogue since it is related to its potential use.  
Waste code is given after consulting the regional waste Service

**13.1.2. Information on waste treatment** : Contact an authorized professional service for the disposal of this material

**13.1.3. Information on discharge in sewer systems** : Do not discharge in streams, channels or other water routes.

**13.1.4. Other recommendations on waste disposal** : No data available.

## **14. UN number**

2810

### **14.1. UN proper shipping name**



*2810 TOXIC LIQUID, ORGANIC. N.O.S.(Origanum oil)*

### **14.2. Transport hazard class(es)**

Class 6.1

### **14.3. Packing group**

III

### **14.4. Environmental hazards**



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Yes, Class 6.1

#### **14.5. Special precautions for user**

Warning: Toxic substances.

#### **14.6. Transport in bulk according to Annex II to MARPOL and IBC Code“**

##### **Road transport**

ADR

2810; Class 6.1, (T1) III

RID

##### **Waterway transport**

ADN

2810; Class 6.1, (T1) III

##### **Maritime transport**

IMDG

TOXIC LIQUID, ORGANIC, N.O.S.(Origanum oil)

##### **Air transport**

IATA/CAO

Toxic liquid, organic, N.O.S. (Origanum oil)

##### **Additional transport information:**

DOT



Limited quantity for packages less than 30 kg and internal packages less than 5 l

ADR/RID/AND



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Limited quantity for packages less than 30 kg and internal packages less than 5 l

IMDG



Limited quantity for packages less than 30 kg and internal packages less than 5 l

IATA



Limited quantity for packages less than 30 kg gross and internal packages less than 0,5 L each / 1L each

## 15. Regulatory information

### 15.1. Legislation specific for the substance or mixture / safety, health and environmental regulations

Other regulations / Laws : This material safety data sheet is consistent with the Law on Protection from Harmful Effects of Substances and Preparations and the Ordinance on the Classification, Packaging and Labelling

EU legislative acts : accordingly, EU regulations.

Permits or restrictions for use : No data available.

Permits : No data available.

Restrictions for use : No data available.

Other EU legislative acts : According to the effective Regulations

### Information according to Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC Guide)



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**Restrictions for use**

in working environment : No data available.

Other legal acts, restrictions  
and prohibitive  
standards : No data available

## 15.2. Chemical Safety Assessment

No data available.

The supplier had not prepared a chemical safety assessment for this substance/mixture.

## 16. Other information

Shelf life 2 years from the date of production.

### Classification and procedure used to obtain the classification of mixtures according to Regulation (EC) No 1272/2008 [CLP]

#### Abbreviations and acronyms:

Abbr.	Description of used abbreviations
<b>ADN</b>	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement on the International Carriage of Dangerous Goods by Inland Waterways)
<b>ADR</b>	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement on the International Carriage of Dangerous Goods by Road)
<b>CAS</b>	Chemical Abstracts Service (prepares the most comprehensive list of chemicals)
<b>CLP</b>	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (Classification, Labelling and Packaging)
<b>CMR</b>	Carcinogenic, mutagenic and toxic for reproduction (substance)
<b>DMEL</b>	Derived Minimal Effect Level
<b>DNEL</b>	Derived No-Effect Level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>GHS</b>	"Globally Harmonized System of Classification and Labelling of Chemicals" , developed by the United Nations
<b>IMDG</b>	International Maritime Dangerous Goods Code
<b>IOELV</b>	Indicative occupational exposure limit value
<b>MARPOL</b>	International Convention on Prevention of Pollution from Ships (abbr. to "Marine Pollutant")
<b>PBT</b>	Persistent, bioaccumulative and toxic
<b>PNEC</b>	Predicted No-Effect Concentration
<b>ppm</b>	parts per million
<b>REACH</b>	Registration, Evaluation, Authorisation and Restriction of Chemicals
<b>RID</b>	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulation on Carriage of Dangerous Goods by Rail)
<b>vPvB</b>	very Persistent and very Bioaccumulative



**AcuteTox.4:Acutetoxicity–Category4**

**AcuteTox.3:Acutetoxicity–Category3**

**SkinIrrit.2:Skincorrosion/irritation–Category2**

**EyeIrrit.2A:Seriouseyedamage/eyeirritation–Category2A**

### **Main references and sources of data in the literature**

- **Regulation (EC) No 1907/2006 (REACH), as amended by 2015/830/EU**
- **Regulation (EC) No 1272/2008 (CLP, EC GHS)**

	<b>List of relevant phrases (code and full text as defined in Section 2 and 3)</b>
<b>Code</b>	<b>Text</b>
H302	Harmful if swallowed
H311	Toxic if skin contact
H315	Causes skin irritation
H319	Causes serious eye irritation
EUH208	Contains Linalool, Geraniol, Eugenol, Coumarin, Limonene. May cause allergic reaction.
	<b>List of instructions for safe treatment, used in the safety document</b>
P102	Keep away from children
P270	Do not eat, drink or smoke while using the product.
P273	Avoid releasing in environment
P280	Use protective gloves/protective clothing/protective goggles/protective facial mask.
P301 + P312	IF SWALLOWED: In case of sickness call the TOXICOLOGY CENTRE /or a physician/.
P305 + P351 + P338	IF CONTACT WITH EYES: Rinse thoroughly with water for several minutes. Remove the contact lenses if there are such and if possible. Continue rinsing.
P301 + P310	IF SWALLOWED: Immediately call the TOXICOLOGY CENTRE /or a physician/
P330	Rinse the mouth
P302 + P352	IF SKIN CONTACT: Wash with plenty of soap and water
P405	Keep locked
P501	Dispose of the content / container in an approved for disposal place in compliance with the local and national regulations.

### **Other information**

: In accordance with general product specification:  
The information in this material safety data sheet is meant to represent typical data/analysis for this product and was obtained from current and reliable sources.  
To the best of our knowledge, data is accurate and based on our knowledge and information, at the time of publication.



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The information presented is intended only as a guidance for proper and safe use, handling, storage, transportation and disposal, and should not be considered a guarantee /expressed or implied/ or a quality specification with respect to the correctness or accuracy.

It is responsibility of the user to determine any safe conditions for use of this product, and to assume responsibility for any loss, injury, damage or expenses resulting from the improper use of this product.

The information relates to the specific product only and is not valid when it used in combination with other materials or in any process, unless specified in the text.

The information provided does not constitute a delivery contract; regarding any specification or a given application, the buyer must determine for himself the requirements and recommendations for use of the product.

**Disclaimer :**

The data in this Safety Data Sheet correspond to the fair presentation of our experience at the time of printing. The information should give you basic guidelines for safe handling of this product, specified in the Safety Data Sheet, regarding its storage, processing, transport and disposal. Data cannot be assigned to other products.

If the product is mixed or processed with other materials, or if it is subject to processing, the data in this Safety Data Sheet cannot be assigned to the new material unless expressly stated otherwise.

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**LIST OF 26 ALLERGEN SUBSTANCES OF THE 7. AMENDMENT OF THE 76/768/CEE DIRECTIVE**

**Customer:** „ ALTEYA ORGANICS LTD, 1 ROSE FIELD STREET, 6167, VILLAGE OF YAGODA, STARA ZAGORA REGION

**Name of product:** Organic White Oregano Oil (*Origanum Vulgare* Ssp.*Hirtum*)

	NAME OF SUBSTANCES	REMARK	CAS №	EINECS №	NATURAL %	SYNTHETIC %	TOTAL %
1	AMYL CINNAMAL	H317; H411	122-40-7	204-541-5	-	-	-
2	AMYLCINNAMYL ALCOHOL	H315; H317	101-85-9	202-982-8	-	-	-
3	ANISE ALCOHOL	H302; H318 H317	105-13-5	203-273-6	-	-	-
4	BENZYL ALCOHOL	H332; H302	100-51-6	202-859-9	-	-	-
5	BENZYL BENZOATE	H302	120-51-4	204-402-9	-	-	-
6	BENZYL CINNAMATE	H317; H411	103-41-3	203-109-3	-	-	-
7	BENZYL SALICYLATE	H317; H411	118-58-1	204-262-9	-	-	-
8	CINNAMAL	H312; H315 H317	104-55-2	203-213-9	-	-	-
9	CINNAMYL ALCOHOL	H317	104-54-1	203-212-3	-	-	-
10	CITRAL	H315; H317	5392-40-5	226-394-6	-	-	-
11	CITRONELLOL	H315; H317 H411	106-22-9	203-375-0	-	-	-
12	COUMARIN	H302; H317	91-64-5	202-086-7	< 0,1	-	< 0,1
13	EUGENOL	H319; H317	97-53-0	202-589-1	0,2	-	0,2
14	FARNESOL	H315; H319	4602-84-0	225-004-1	-	-	-
15	ALPHA-ISOMETHYL IONONE	H412	127-51-5	204-846-3	-	-	-
16	GERANIOL	H315; H317	106-24-1	203-377-1	0,2	-	0,2
17	HEXYL CINNAMAL	H317;	101-86-0	202-983-3	-	-	-
18	HYDROXYCITRONELLAL	H319; H317	107-75-5	203-518-7	-	-	-
19	ISOEUGENOL	H312; H302 H319; H315 H317	97-54-1	202-590-7	-	-	-
20	BUTYLPHENYL METHYLPROPIONAL (LILIAL)	H317	80-54-6	201-289-8	-	-	-
21	LIMONENE	H226; H315 H317; H411	5989-27-5	227-813-5	1,0	-	1,0
22	LINALOOL	H315	78-70-6	201-134-4	1,7	-	1,7
23	HYDROXYISOHEXYL 3- CYCLOHEXENE CARBOXALDEHYDE (LYRAL)	H317	31906-04-4	250-863-4	-	-	-
24	METHYL 2-OCTYNOATE	H302; H317	111-12-6	203-836-6	-	-	-
25	EVERNIA FURFURACEA LICHEN EXTRACT (TREEMOSS EXTRACT)	H317	90028-67-4	289-860-8	-	-	-
26	EVERNIA PRUNASTRI (OAK MOSS)	H317	90028-68-5	289-861-3	-	-	-

**According to Regulation EO 1223/2009 и Directive 76/768/EEC is hereby amended as follows:**

The presence of the substance must be indicated in the list of ingredients referred to in Article 6(1)(g) when its concentration exceeds:  
— 0,001 % in “leave-on” products, (and) — 0,01 % in “rinse-off” products