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## MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No 1272 of 2008 and Regulation (EU) 2015/830

### Organic Black Pepper Oil

Version 01

Date: 04.02.2020

Date of print: 04.02.2020

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

##### 1.1. Product Identifier

|                       |   |   |
|-----------------------|---|---|
| Trade name            | : | Organic Black Pepper Oil  |
| Substance name (INCI) | : | PIPER NIGRUM FRUIT OIL  |
| REACH Registration No | : | -   |
| CAS No                | : | 84929-41-9  |
| EO No                 | : | 284-524-7   |
| Biological origin     | : | It is produced by distillation of dried immature fruits of tropical and multiyear liana (Piper nigrum L.), Piperaceae family. |

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

Use of the substance/ : For application in the area of perfumery and mixture cosmetics, independently or as a recipe component, a part of composition.

Recommended : No data available  
restrictions on use

##### 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



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**E-mail of the competent person  
responsible for the Safety Data**

**Sheet** : [salesbg@alteya.com](mailto:salesbg@alteya.com)  
**National contact person** : Kaloyan Stoev

**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 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> |
| 3.2                                 | Skin              | Skin irritation                     | Corrosion/irritation 2                        | H315                     |
| 3.4                                 | Sens.             | Skin sensitization                  | (Skin sens 1)                                 | H317                     |
| 3.3                                 | Eye               | Serious eye damage / eye irritation | (Eye Dam. 1)                                  | H318                     |
| 4.1                                 | Chronic           | Hazardous for aquatic life          | Aquatic Chronic 1                             | H410                     |

**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**



GHS07 GHS09

Signal word : Warning

**Hazard statements** : H315 Causes skin irritation  
H317 May cause allergic skin reaction  
H318 Causes serious eye damage

**Hazard statements concerning**



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**environment**

: H410 Very toxic to aquatic life with long-lasting effects.

EUH 208 Contains Linalool, Limonene.  
May cause allergic reaction.

## **Safety recommendations**

Safety recommendations

- General

P102 Keep out of reach of children

Safety recommendations

- Prevention

P273 Avoid release to the environment.

P280 Use protective gloves / protective clothing / protective goggles / protective face mask.

Safety recommendations

- As a reaction

P305+ P351+ If eye contact: Rinse thoroughly with water for several minutes. Remove contact lenses if there are such and if possible. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Seek medical advice/help.

Safety recommendations

- In discharge

P501

Dispose of contents / container in an approved place and in compliance with the local and national regulations.

## **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>  |
|-------------------|---|------------|--|
| PIPERINE          | EINECS NO: 202-348-0<br>CAS NO: 94-62-2   | 4,0 – 10,0 | Acute Tox.: Oral, Cat. 3, H301   |
| LIMONENE          | EINECS NO: 227-813-5<br>CAS NO: 5989-27-5 | 8,7 – 23,0 | Flam. Liq. 3 – H226<br>Skin Irrit. 2 – H315<br>Skin Sens. 1 – H317<br>Asp. Tox. 1 – H304 |



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|                 |  |            |  |
|-----------------|--|------------|--|
|                 |  |            | <i>Aquatic Acute 1 – H400</i><br><i>Aquatic Chronic 1 – H410</i>   |
| B-PHELLANDRENE  | EINECS NO: 209-081-9<br>CAS NO: 555-10-2   | 0,2 – 27,0 | <i>Flam. liq. Cat. 3, H226</i><br><i>Asp. haz., Cat. 1, H304</i>   |
| Delta-3-Carene  | EINECS NO: 236-719-3<br>CAS NO: 13466-78-9 | 0,2 – 38,0 | <i>Flam. Liq. 3: H226</i><br><i>Asp. haz., Cat. 1, H304</i><br><i>Skin Sens. 1: H317</i><br><i>Aquatic Chronic 2, H411</i>   |
| SABINENE        | EINECS NO: -<br>CAS NO: 3387-41-5          | 0,2 – 29,0 | <i>Flam. liq. Cat. 3, H226</i><br><i>Asp. haz., Cat. 1, H304</i><br><i>Skin Irrit. 2 – H315</i><br><br><i>Eye Irrit. 2 - H319</i><br><i>STOT - sing. exp., Cat. 3, H335</i>  |
| α-PINENE        | EINECS NO: 201-291-9<br>CAS NO: 80-56-8    | 0,3 – 13,0 | <i>Acute Tox. Oral 5 (H303)</i><br><i>Skin Sens. 1B (H317)</i><br><i>Skin Irrit. 2 (H315)</i><br><i>Asp. Tox. 1 (H304)</i><br><i>Flam. Liq. 3 (H226)</i><br><i>Aquatic Acute 1 (H400)</i><br><i>Aquatic Chronic 1 (H410)</i> |
| b-PINENE        | EINECS NO: 204-872-5<br>CAS NO: 127-91-3   | 2,0 – 15,8 | <i>Flam. Liq. 3 – H226</i><br><i>Skin Sens. 1 – H317</i><br><i>Skin Irrit. 2 – H315</i><br><i>Asp. Tox. 1 – H304</i><br><i>Aquatic Acute 1 – H400</i><br><i>Aquatic Chronic 1 – H410</i>                                     |
| b-Caryophyllene | EINECS NO: 201-746-1<br>CAS NO: 87-44-5    | 5,3 – 41,5 | <i>Asp. Tox. 1 (H304)</i>  |
| LINALOOL        | EINECS NO: 201-134-4<br>CAS NO: 78-70-6    | 0,1 – 1,0  | <i>Acute Tox. Oral 5 (H303)</i><br><i>Eye Irrit. 2A (H319)</i><br><i>Flam. Liq. 4 (H227)</i><br><i>Aquatic Acute 3 (H402)</i><br><i>Skin Sens. 1B (H317)</i><br><i>Skin Irrit. 2 (H315)</i>                                  |

## 4. First Aid Measures

### 4.1. Description of first aid measures

- General notes : In case of sickness seek medical advice (if possible show the label).
- In case of inhalation : Immediately remove the exposed individual away from the source of exposition to fresh air. If any discomfort



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persists seek medical advice.

- In case of skin contact : Immediately remove contaminated clothing and wash skin with soap and water. If any discomfort persists seek medical advice.
- In case of eye contact : Immediately start rinsing the eyes with plenty of water for at least 15 min. Remove the contact lenses. Immediately seek medical advice. Continue rinsing.
- In case of ingestion : Do not induce vomiting. Immediately rinse mouth and provide fresh air. If symptoms persist seek medical advice.
- Self-protection of emergency staff : No additional data available

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

- Symptoms : Causes skin irritation. May cause allergic reaction.
- Effects : No additional data available

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

- Treatment : There isn't a specific antidote. Treat symptomatically.

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

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

- Suitable extinguishing media : Carbon dioxide (CO2), dry powder, foam.
- Unsuitable extinguishing media : Water spray.

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

- Hazardous combustion products : In case of heating or fire toxic gases can be formed.
- Specific hazards : No data available.



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during fire-fighting

### **5.3. Advice for firefighters:**

Special protective equipment for firefighters : Use appropriate respiratory equipment.  
Wear fully protective clothing.

Additional data : Fight fire using the usual precautionary measures from an appropriate distance.

## **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 exposed chemicals. Avoid skin contact and inhaling the vapors or the smoke. Maintain adequate ventilation in operating area after spillage.

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

Wear personal protective equipment. Keep people away from the spill/leak upwind. For personal protective see SECTION 8.

### **6.2. Environmental precautions**

Environmental protections : Avoid discharge in sewer system, water basins or on the soil.

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

6.3.1. For containment : Cover with inert, inorganic, nonflammable absorbing material (dry lime, sand, soda ash). Place in closed containers, using tools that do not cause sparking and transport to an opened place. Avoid open flames or ignition sources.



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6.3.2. For cleanup : Dispose following applicable laws and regulations.

6.3.3. More information : Wear personal protective clothing as described in SECTION 8 of this Material Safety Data Sheet.

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

For personal protective equipment: see SECTION 8.

### **7. Handling and Storage**

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

Precautions : Keep away from food and drinks.  
Avoid skin and eye contact. Handle observing the rules of the good hygiene and safety practice. Provide adequate ventilation in operating area.

Fire-fighting measures : Store away from ignition sources.

Measures to avoid transformation into aerosols and powder : No data available.

Environmental precautions: Follow the instructions for storing the product.

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 original container, tightly closed in a dry, well ventilated place away from ignition sources and protected from light.

Packing materials : Packaged in containers of aluminum or white tin, which must be full, tightly closed and sealed.



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#### Requirements to storage

areas or containers : Use local and general ventilation of the premises at the recommended temperature and humidity.

Storage class : No data available

Recommendations for fire and explosion protection : None known.

Recommendations for primary storage : Store in a dark and cool place.

It is recommended to follow the requirements concerning according to **ISO/TS 210:2015.**

#### 7.3. Specific end use(s)

Recommendations : No data available.

Solutions specific to the industry sector : No data available.

Specific use(s) : For application in the area of perfumery and cosmetics, independently or as a recipe component, 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

- **Values for human health**

**DERIVED NO EFFECT LEVEL (DNEL) OR DERIVED MINIMUM EFFECT LEVEL (DMEL):**



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**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.  
**POTENTIAL HEALTH EFFECTS:** SHORT TERM SYSTEMIC EFFECTS.  
**DNEL:** 16.5MG OF SUBSTANCE/M<sup>3</sup>

**EXPOSURE METHOD:** INHALATION.  
**POTENTIAL HEALTH EFFECTS:** LONG TERM SYSTEMIC EFFECTS.  
**DNEL:** 2.8MG OF SUBSTANCE/M<sup>3</sup>  
**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<sup>2</sup>

**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<sup>2</sup>

**EXPOSURE METHOD:** INHALATION.  
**POTENTIAL HEALTH EFFECTS:** SHORT TERM SYSTEMIC EFFECTS.



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**DNEL:** **4.1 MG OF SUBSTANCE/M3**

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

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

**DNEL:** **0.7 MG OF SUBSTANCE/M3**

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

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

**ENVIRONMENTAL COMPARTMENT:** **SOIL.**  
**PNEC:** **0.327MG/KG**

**ENVIRONMENTAL COMPARTMENT:** **FRESH WATER.**  
**PNEC:** **0.2MG/L**

**ENVIRONMENTAL COMPARTMENT:** **SEA WATER.**  
**PNEC:** **0.02MG/L**

**ENVIRONMENTAL COMPARTMENT:** **INTERMITTENT WASTE WATER.**  
**PNEC:** **2MG/L**

**ENVIRONMENTAL COMPARTMENT:** **FRESH WATER SEDIMENT.**  
**PNEC:** **2.22MG/KG**

**ENVIRONMENTAL COMPARTMENT:** **MARINE SEDIMENT.**  
**PNEC:** **0.222MG/KG**

**ENVIRONMENTAL COMPARTMENT:** **WASTE WATER TREATMENTPLANT.**  
**PNEC:** **10MG/L**

## **8.2. Exposure 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 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. Good practices of personal hygiene are always recommended especially when handling chemicals / oils.



#### 8.2.2. Personal protective equipment:

8.2.2.1. Eyes and face protection: Wear approved protective goggles.

##### 8.2.2.2. Skin protection

Hand protection : Wear chemical resistant gloves (PVC) to avoid skin contact.

Other skin protection: Wear suitable clothing to prevent any skin contact.

8.2.2.3. Respiratory tract protection : In case of high concentrations use respiratory equipment.

8.2.2.4. Thermal hazards : There aren't such.

8.2.3. Environmental exposure controls : Avoid disposal in drainage waters. To be eliminated by authorized companies only.

Measures related to substance/mixture required to avoid exposition : No data available.

Training measures related to the avoiding of exposition : Training of the staff is organized according to a company schedule.

Organization measures to avoid exposition : Training of staff

Technical measures to avoid exposition : Training of staff

#### **Environmental exposure 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                             | : | easy flowing liquid   |
| Color                                  | : | colorless to pale greenish  |
| Odor                                   | : | strong, pungent, spicy pepper scent with a slight turpentine note |
| Taste                                  | : | soft  |
| Odor threshold                         | : | No data from our supplier on this matter                          |
| pH                                     | : | No data available   |
| Melting point /<br>Freezing point      | : | No data available   |
| Boiling point                          | : | No data available   |
| Boiling point /<br>boiling range       | : | No data available   |
| Ignition point in °C                   | : | 90.0°C  |
| Evaporation rate                       | : | No data available   |
| Flammability<br>(solid substance, gas) | : | No data available   |
| Upper flammability/<br>explosion limit | : | No data available   |
| Lower flammability/<br>explosion limit | : | No data available   |
| Vapor pressure                         | : | No data available   |
| Solubility(ies)                        | : | in ethanol, essential oils, fat-soluble                           |
| Insoluble in                           | : | water   |
| Partition coefficient                  | : |   |



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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

### **Other information**

Refractive index at 20°C : 1.468-1.488

Relative density at 20°C : 0.860-0.884

Optical rotation at ° : -12,6°

No other information available.

## **10. Stability and Reactivity**

### **10.1. Reactivity**

Advice : Stable under the recommended storage conditions.

### **10.2. Chemical stability**

Advice : Stable under the recommended storage conditions.

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

Hazardous reactions : No data available.

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

Conditions to avoid : Avoid heat, flames and other ignition sources. Do not store near heat, sparks, open flames. Avoid prolonged exposure to air to minimize product degradation.

Thermal decomposition : Thermal decomposition can release / form carbon monoxide (CO) and carbon dioxide (CO2).



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## 10.5. Incompatible materials

Materials to avoid : Avoid contact with strong acids and alkalis.

## 10.6. Hazardous decomposition products

Hazardous decomposition products : When exposed to high temperatures, the substance can release hazardous products due to the decomposition, such as carbon oxide, carbon dioxides, smoke and nitrogen monoxide.

## 11. Toxicological Information

All the values of the ingredients, presented below are from literature data. No toxicological information for the mixture itself is available.

### 11.1. Information on toxicological effects

#### Acute toxicity

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

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

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

ORAL ROUTE: LD50=2200MG/KG  
SPECIES: MOUSE  
OECDGUIDELINE 401(ACUTE ORAL TOXICITY)

#### Corrosion/Skin irritation

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

ORAL ROUTE: LD50= > 5000MG/KG  
SPECIES : Rabbit

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

ORAL ROUTE: LD50= > 5,600 - 6000MG/KG  
SPECIES : Mouse

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

DERMAL ROUTE : LD50=5610MG/KG  
SPECIES: RABBIT  
OECDGUIDELINE 402(ACUTE DERMAL TOXICITY)

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



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**IRRITATION:** **AVERAGE SCORE = 1.85**

**EFFECT OBSERVED :** **ERYTHEMA SCORE**

**SPECIES :** **RABBIT**

**DURATION OF EXPOSURE :** **24hOECDGUIDELINE 404 (ACUTE DERMAL IRRITATION /CORROSION)**

Notes : Irritating to skin and mucous membranes.

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### **Serious damage/eye irritation**

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Result : Causes serious eye irritation.

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

**CORNEAL HAZE:** **AVERAGE SCORE = 1**

**SPECIES :** **RABBIT**

**DURATION OF EXPOSURE :** **24hOECDGUIDELINE 405 (ACUTE EYE IRRITATION /CORROSION)**

**IRITIS:** **AVERAGE SCORE = 0.6**

**SPECIES :** **RABBIT**

**DURATION OF EXPOSURE :** **24hOECDGUIDELINE 405 (ACUTE EYE IRRITATION /CORROSION)**

**CONJUNCTIVAL REDNESS:** **AVERAGE SCORE = 2.3**

**SPECIES :** **RABBIT**

**DURATION OF EXPOSURE :** **24hOECDGUIDELINE 405 (ACUTE EYE IRRITATION /CORROSION)**

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### **Respiratory or skin sensitization**

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Result : May cause allergic reaction if skin contact.

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### **Ingestion**

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Note : No data available.

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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



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classified in connection with its carcinogenicity to people.

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### **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**

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Note : No data available

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### **Aspiration hazard**

---

Note : No data available.

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

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Note : No data available

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

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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**

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Note : Toxicological characteristics are not comprehensively studied



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### **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 : The persons having rash are directed to dermal specialist to be examined for allergic eczema.

### **Other information**

Note : No data available

## **12. Ecological information**

Note : Very toxic to aquatic organism with long-time adverse effect in the aquatic environment. Avoid releasing in environment.

### **12.1. Toxicity**

#### **Product:**

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

**Fish**

LINALOOL(CAS:78-70-6)

*FISH TOXICITY:*

*DURATION OF EXPOSURE :96H*

*LC50=27.8MG/L*

*SPECIES :ONCORHYNCHUS MYKISS*

*OECD GUIDELINE 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*

---

### Bacteria

---

Note : No data available

---

### Chronic (long-term) toxicity:

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Note : No data available

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### Fish

---

Note : No data available

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### Shellfish

---

Note : No data available

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### Algae/water plants

---

Note : No data available

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### Other organisms

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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**

Note : No data available

## **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**

This product doesn't contain substances considered highly persistent nor highly bioaccumulative vPvB.

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

#### **Product:**

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

Notes : No data available

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

#### **Product:**

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

Value : No data available

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

Value : No data available

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

Notes : No data available

### **12.7. Additional information**

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

### **13. Disposal of Waste**

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

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

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

Product : Do not re-use the empty containers.

Contaminated packaging : No data available.



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material

European Waste Catalogue Number : No waste code can be given for this product according to the European Waste Catalogue since it is related to its potential use.

Waste code is given after consultation with the regional waste service.

**13.1.2. Information on waste : treatment** : Dispose in accordance with all local and national regulations.

**13.1.3. Information on discharge in sewer systems :** Avoid disposal of product in streams, channels or other water routes.

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

## **14. UN number**

3082

### **14.1. UN number**

3082

### **14.2. UN proper shipping name**



3082 HAZARDOUS SUBSTANCES IN TERMS OF ENVIRONMENT, LIQUID, n.o.s.

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

Class 9, Pack,gr.III

### **14.4. Packing group**



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Class 9, Pack.gr.III

#### 14.5. Environmental hazards



#### 14.6. Special precautions for user

None known

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

#### Road transport

ADR

3082 HAZARDOUS SUBSTANCES IN TERMS OF  
ENVIRONMENT, LIQUID, n.o.s.

RID

#### Waterway transport

ADN

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ENVIRONMENT, LIQUID, n.o.s.

#### Maritime transport

IMDG

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ENVIRONMENT, LIQUID, n.o.s.

#### Air transport

IATA/CAO

3082 HAZARDOUS SUBSTANCES IN TERMS OF  
ENVIRONMENT, LIQUID, n.o.s.

### 15. Regulatory Information

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

Other regulations / :  
Laws

This safety data sheet is consistent with  
the Law on Protection from Harmful Effects of Chemicals and  
the Ordinance on the Classification, Packaging and Labelling



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EU legislative acts : accordingly, EU regulations.

Permits or restrictions for use : No data available.

Permits : Not required

Restrictions : 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)**

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 : 30 month from the date of manufacture.

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

#### **Abbreviations and acronyms:**

| <b>Abbr.</b> | <b>Description of used abbreviations</b>  |
|--------------|---|
| <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   |



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|               |  |
|---------------|--|
| <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   |

|  |                        |
|--|------------------------|
| <b>Skin irritation</b>                   | Corrosion/irritation 2 |
| <b>Skin sensitization</b>                | (Skin sens 1)          |
| <b>Serious eye damage/eye irritation</b> | (Eye Dam, 1)           |
| <b>Hazardous for aquatic life</b>        | Aquatic Chronic 1      |

#### 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>   |
| H315   | Causes skin irritation  |
| H317   | May cause allergic skin reaction  |
| H318   | Causes serious eye damage   |
| H410   | Very toxic for aquatic life with long-lasting effect  |
| EUH208   | Contains Linalool, Limonene. May cause allergic reaction.   |
| <b>List of instructions for safe treatment, used in the safety document</b>        |   |
| P102   | Keep away from children   |
| P273   | Avoid releasing in environment  |
| P280   | Use protective gloves/protective clothing/protective goggles/facial mask.   |
| P333 + P313  | In case of skin irritation or rash: seek medical advice/help.   |
| P305 + P351 +  | IF CONTACT WITH EYES: Rinse thoroughly with water for several minutes.  |
| P338   | Remove the contact lenses if there are such and if possible. Continue rinsing.  |
| 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:



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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.

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.

**E N D!**



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

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

**Name of product: Organic Black Pepper Oil (Piper Nigrum Fruit Oil)**

|    | 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<br>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<br>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<br>H411               | 106-22-9   | 203-375-0 | -          | -           | -          |
| 12 | COUMARIN   | H302; H317                       | 91-64-5    | 202-086-7 | -          | -           | -          |
| 13 | EUGENOL  | H319; H317                       | 97-53-0    | 202-589-1 | -          | -           | -          |
| 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 | -          | -           | -          |
| 17 | HEXYL CINNAMAL   | H317;                            | 101-86-0   | 202-983-3 | -          | -           | -          |
| 18 | HYDROXYCITRONELLAL   | H319; H317                       | 107-75-5   | 203-518-7 | -          | -           | -          |
| 19 | ISOEUGENOL   | H312; H302<br>H319; H315<br>H317 | 97-54-1    | 202-590-7 | -          | -           | -          |
| 20 | BUTYLPHENYL<br>METHYLPROPIONAL (LILIAL)                      | H317                             | 80-54-6    | 201-289-8 | -          | -           | -          |
| 21 | LIMONENE   | H226; H315<br>H317; H411         | 5989-27-5  | 227-813-5 | 8,7 – 23,0 | -           | 8,7 – 23,0 |
| 22 | LINALOOL   | H315                             | 78-70-6    | 201-134-4 | 0,1 – 1,0  | -           | 0,1 – 1,0  |
| 23 | HYDROXYISOHEXYL 3-<br>CYCLOHEXENE<br>CARBOXYALDEHYDE (LYRAL) | H317                             | 31906-04-4 | 250-863-4 | -          | -           | -          |
| 24 | METHYL 2-OCTYNOATE   | H302; H317                       | 111-12-6   | 203-836-6 | -          | -           | -          |
| 25 | EVERNIA FURFURACEA<br>LICHEN EXTRACT (TREEMOSS<br>EXTRACT)   | H317                             | 90028-67-4 | 289-860-8 | -          | -           | -          |
| 26 | EVERNIA PRUNASTRI (OAK<br>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