



**ALTEYA®**  
organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

## MATERIAL SAFETY DATA SHEET

**According to Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2020/878 and Regulation (EC) No 1272/2008**

### Organic Grapefruit Oil

Version 02

Date of creation: 23.10.2019

Supersedes the version from: 23.10.2019

Date of new version: 30.08.2022

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

##### 1.1. Product Identifiers

Trade name	:	Organic Grapefruit Oil
Substance name (INCI)	:	CITRUS PARADISI PEEL OIL
CAS №	:	8016-20-4
EO №	:	-
ISO	:	ISO 3053:1975
Biological origin	:	Obtained by pressing without heating from the skins of the ripe fruit of the grapefruit (Citrus paradisi) of the family Rutaceae.

##### 1.2. Relevant identified significant 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	:	Avoid contact with eyes!
Reason not to recommend use:		May cause irritation.

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

<u>Manufacturer</u>	:	ALTEYA ORGANICS LLC
<u>Mailing address/Postal code</u>	:	6167, village of Yagoda,1, Rozovarna St.
<u>Country identifier/</u>		



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

**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

#### 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)

Classification according to GHS				
Chapter	Subsection	Class of hazard	Class of hazard and category of hazard	Hazard statements
2.6.	Flam.	Flammable liquids	(Flam. Liq. 3)	H226
3.10	Inh.	Aspiration hazard	(Asp Tox 1)	H304
3.2	Skin	Skin irritation	Corrosion/irritation 2	H315
3.4	Sens.	Sensitization — skin	(Skin sens 1)	H317
4.1	Chronic	Harmful to aquatic life	Aquatic Chronic 2	H411

**The most important physicochemical adverse effects and adverse effects on human health and the environment:** The substance is flammable and can ignite from potential sources of initiation. Spills and firefighting water may cause watercourse pollution.

#### 2.1.2. Additional information:

For the full text of hazard statements and EU hazard statements: see SECTION 16.

### 2.2. Label Elements

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

#### Hazard pictograms



GHS02 GHS07 GHS08 GHS09

**Signal word** : Hazardous

**Hazard statements** : H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways  
H315 Causes skin irritation  
H317 May cause an allergic skin reaction

**Hazard statements concerning environment** : H411 Toxic to aquatic life with long lasting effects



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

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

### **Safety recommendations**

Safety recommendations		
- General	:	P102 Keep out of reach of children
Safety recommendations		
- Prevention	:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P241 Use explosion-proof [electrical/ventilating/lighting/...] equipment.
		P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
		P262 Do not get in eyes, on skin, or on clothing.
		P273 Avoid release to the environment.
		P280 Wear protective gloves/protective clothing/eye protection/face protection.
- Safety recommendations		
- As a reaction	:	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/... P331 Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P302 + P352 IF ON SKIN: Wash with plenty of water/... P391 Collect spillage.
Safety recommendations		
- If stored		P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up
Safety recommendations		
- At disposal	:	P501 Dispose of contents / container at an approved disposal site in accordance with local and national regulations.

### **2.3. Other hazards**

No other information available.

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



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

### 3. Composition/information on ingredients

#### 3.1. Substances

INGREDIENT	IDENTIFIERS	%	CLASSIFICATION
CITRUS PARADISI PEEL OIL	EINECS NO: - CAS NO: 8016-20-4	100,0	    <b>DANGER</b> Flam. Liq. 3 / H226 Asp. Tox. 1 / H304 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Chronic 2 / H411
LIMONENE	EINECS NO: 227-813-5 CAS NO: 5989-27-5	84,0 - 95,0	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410
MYRCENE	EINECS NO: 204-622-5 CAS NO: 123-35-3	< 3,0	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411
LINALOOL	EINECS NO: 201-134-4 CAS NO: 78-70-6	0,1 – 1,0	Eye Irrit. 2A (H319) Skin Sens. 1B (H317) Skin Irrit. 2 (H315)
HYDROCARBONS	EINECS NO: - CAS NO: -	< 93,0	Acute Tox. 4, H302 Acute Tox. 4, H312
ALPHA PINENE	EINECS NO: 201-291-9 CAS NO: 80-56-8	< 2,0	Flam. Liq. 3 – H226 Skin Sens. 1 – H317 Skin Irrit. 2 – H315 Asp. Tox. 1 – H304 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410
DECANAL	EINECS NO: 203-957-4 CAS NO: 112-31-2	0,1 – 1,0	Eye .irrit, Cat. 2A; H319 Aquatic Acute 3 – H402 Flam. Liq. 4 - H227
OCTANAL	EINECS NO: 204-683-8 CAS NO: 124-13-0	Up to 2,0	Flam. Liq. 3 - H226 Skin Irrit. 2 – H315 Eye .irrit, Cat. 2A; H319 Aquatic Acute 2 – H401 Aquatic Chronic 2 – H411



#### 4. First Aid Measures

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



- General notes : If you feel unwell, seek medical attention (show the label if possible). Immediately remove clothing contaminated with the product.
- Following inhalation : Move the exposed person immediately from the source of exposure to fresh air. If symptoms persist, seek medical attention.
- Following skin contact : Wash the affected area thoroughly with soap and water. Remove contaminated clothing. If skin irritation persists, consult a doctor.
- Following eye contact : Rinse immediately with plenty of water for up to 15 minutes by removing the contact lenses. Seek medical attention immediately. Continue rinsing.
- Following ingestion : Call a doctor immediately. Do not induce vomiting. In case of vomiting, be aware of the risk of inhalation.
- Self-protection of first aid provider : No data available.

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

- Symptoms : Aspiration hazard, Irritation, Allergic reactions
- Effects : No other information available

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

- Treatment : There is no specific antidote. Treat symptomatically.

#### 5. Fire-fighting Measures

##### 5.1. Extinguishing media

- Suitable extinguishing media : spray, alcohol-resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)



**ALTEYA®**  
organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

Unsuitable extinguishing media : water jet

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

Hazardous combustion products

Combustible. In case of insufficient ventilation and/or when used, it may form a flammable or explosive vapor-air mixture. Solvent vapors are heavier than air and can spread across floors.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Combustion may release toxic gases containing carbon monoxide.

Specific hazards during fire-fighting

: Containers can build up pressure when exposed to heat (fire).

## 5.3. Advice for firefighters

Special protective equipment for firefighters

: Do not inhale smoke in case of fire and/or explosion. Do not allow extinguishing water to enter drains or water sources. Extinguish the fire with the usual precautions from a reasonable distance. Wear a self-contained breathing apparatus.

additional information

: Cool affected containers with water spray. Separately collect the contaminated fire extinguishing water. It should not enter drains. Dispose of fire debris and contaminated fire extinguishing water in accordance with official regulations.

## 6. Accidental Release Measures

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

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

Personal precautions, protective equipment and procedures

: Wear appropriate protective equipment (including the personal protective equipment listed in section 8 of the safety data sheet) to prevent contamination of skin, eyes and



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

personal clothing. Do not breathe vapor/aerosol. Avoid ignition sources.

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

Wear personal protective equipment. Ensure adequate ventilation. Unprotected persons are not allowed. Avoid contact with eyes and skin. Avoid breathing fumes. Keep ignition sources away.

#### **6.2. Environmental precautions**

Environmental precautions	:	Protect against contamination of drains, surface and ground water. Save the contaminated wash water and dispose it of. Danger of explosion.
---------------------------	---	---

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

6.3.1. For containment	:	Covering of drains. Should be mechanically absorbed with a binding material (sand, diatomite, acid binding agent or universal).
6.3.2. For cleanup	:	Should be mechanically absorbed with a binding material (sand, diatomite, acid binding agent or universal). Place in appropriate containers for disposal. Ventilate the affected area.
6.3.3. Other information	:	Keep away from sources of ignition. Do not smoke and avoid flames.

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

For personal protection see section 8.

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

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

Precautions	:	Ensure adequate ventilation. Always wash hands after work. Remove and wash contaminated clothing before reuse. Remove contaminated clothing and protective equipment before entering eating areas.
Fire-fighting measures	:	Keep away from sources of ignition. No smoking. Take precautions against discharging static electricity. Work in well-ventilated areas. Prevent formation of flammable or explosive concentrations in air and avoid vapor



**ALTEYA®**  
o r g a n i c s

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

concentrations above occupational exposure limits. Keep packages tightly closed and away from sources of heat, sparks and open flames. Do not use tools that may cause sparks. Never open packages under pressure.

Measures to avoid transformation into aerosols and powder : Ensure adequate ventilation of the working area.

Environmental precautions : Do not allow it to enter drains or water. In case of penetration into water or sewerage, 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 only in unopened original containers. Keep the container tightly closed in a dry and well-ventilated place. Keep away from food and drink, including for animals. Keep away from all sources of ignition, heat and direct sunlight.

Packing materials : Use packaging materials allowing the integrity of the product. Always store in packaging made of identical material to the original.

Incompatible substances, mixtures : Follow the combined storage guidelines.

Requirements to storage areas or containers : Use local and general ventilation. Store in a dark and cool place, away from oxidizers. Storage at: 15 – 25 °C.

Storage class : 3

Classification according to : Flammable  
Betriebsicherheitsverordnung  
(BetrichV)



**ALTEYA®**  
organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

Recommendations for fire and :  
explosion protection

Keep away from sources of ignition - do not smoke. Vapors may combine with air to form an explosive mixture. Wetted solids (e.g. cloth, cellulose, filter panel, binder) should be stored hermetically closed and/or soaked and disposed of properly. Keep ignition sources away. No smoking. Protection against electrostatic charges. Grounding/equipotential connection of container and receiving device.

Recommendations for primary storage

: Keep away from combustible materials. Keep container tightly closed.

Recommendations for primary storage

: **It is recommended that the packaging and storage conditions according to ISO/TS 210:2015 are observed.**

### 7.3. Specific end use(s)

Recommendations

: Read the label before use.

Solutions specific to the industrial sector

: No information available.

Specific use(s)

: Used in perfumery and cosmetics by itself or as a formulation constituent, included in a composition.

Additional information:

Follow the regulation relative to the application:

- The cosmetics product regulations if advertised as cosmetics (for instance perfume, highly diluted essential oils for use on the body as massage oils or bath supplements).

## 8. Exposure controls/Personal protection equipment

### 8.1. Control parameters

**National limit values**

**Occupational exposure limits (Workplace exposure limits)**

No data available.

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



### *D-Limonene*

<i>France</i> TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	<i>Germany</i> TWA: 5 ppm STEL: 1500 mg/m <sup>3</sup> TWA: 28 mg/m <sup>3</sup> Ceiling / Peak: 20 ppm Ceiling / Peak: 112 mg/m <sup>3</sup>
<i>Finland</i> TWA: 25 ppm - TWA: 140 mg/m <sup>3</sup> STEL: 50 ppm STEL: 280 mg/m <sup>3</sup>	<i>Switzerland</i> TWA: 25 ppm - TWA: 140 mg/m <sup>3</sup> TEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup>

### **Human health values**

End point	Threshold level	Target of protection, route of exposure	Used in	Exposure period
DNEL	31,1 mg/m <sup>3</sup>	human, inhalation	industrial worker	chronic - systemic effects
DNEL	8,89 mg/kg body weight/day	human, dermal	industrial worker	chronic - systemic effects

### **Relevant DNEL - mixture components D-Limonene**

End point	Threshold level	Target of protection, route of exposure	Used in	Exposure period
DNEL	66,7 mg/m <sup>3</sup>	human, inhalation	industrial worker	chronic - systemic effects
DNEL	9,5 mg/kg body weight/day	human, dermal	industrial worker	chronic - systemic effects

### **Environmental values**

End point	Threshold level	Organism	Environmental component	Exposure period
PNEC	5,4 µg/l	Aquatic organisms	freshwater	transient (instant)
PNEC	0,54 µg/l	Aquatic organisms	sea water	transient (instant)
PNEC	2,1 mg/l	Aquatic organisms	Treatment plant STP	transient (instant)
PNEC	1,3 mg/kg	Aquatic organisms	Sediments in freshwater	transient (instant)
PNEC	0,13 mg/kg	Aquatic organisms	Marine sediments	transient (instant)
PNEC	0,29 mg/kg	Terrestrial organisms	soil	transient (instant)

### **Other occupational exposure limit values**

#### **Information on monitoring procedures Relevant DNEL-/DMEL-/PNEC and other threshold levels**

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



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

**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.*



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

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

**EXPOSURE METHOD:** INHALATION.

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

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

**EXPOSURE METHOD:** INHALATION.

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

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

**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. Exposition controls

### 8.2.1. Appropriate engineering control

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

Use personal protective equipment depending on the concentration and quantity of the hazardous substance. Store away from food, drink and feed. Wash hands before breaks and at the end of work. Avoid skin contact. Avoid contact with eyes and skin. Provide an eyewash station. Provide adequate ventilation. Good personal hygiene practices are always recommended, especially when handling chemicals/oils. Use personal protective equipment that is clean and properly maintained. Store personal protective equipment in a clean area away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before reuse. Make sure there is adequate ventilation, especially in enclosed areas.



8.2.2. Personal protective equipment:

8.2.2.1. Eyes and face protection : Use safety masks with side protection. Tight-fitting goggles according to EN 166:2001



8.2.2.2. Skin protection

Hand protection : Preventive skin protection by using skin protection products is recommended. Use protective gloves. Material of gloves: The selection of suitable gloves depends not only on the material, but also on other quality marks and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and must be checked before application. Penetration time of glove material: >480 minutes at 0.425 mm layer thickness (Sol-Vex (37-695) from Ansell). For permanent contact, gloves made of the following materials are suitable: Nitrile rubber, NBR (e.g. the following product: Sol-Vex (37-695) from Ansell. As protection against splashes, gloves made of the following materials are suitable: PVC gloves.

Other skin protection : Protective work clothing.



8.2.2.3. Respiratory tract protection :

Appropriate respiratory protection: filter class A2 (brown color). Use the rules for respiratory protection systems application.

8.2.2.4. Thermal hazards : None known.

8.2.3. Environmental exposure control: Avoid discharge into drains. Eliminate only through authorized companies.

Measures related to the substance/ mixture, to avoid exposure : No data available



**ALTEYA®**  
o r g a n i c s

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

Training measures required to avoid exposure : Staff training as per internal schedule.

Organization measures to avoid Exposure : Staff training

Technical measures to avoid Exposure : Staff training

### **Environmental exposure controls**

Basic guidelines : Protect against contamination of drains, surface and ground water.

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

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

Appearance/type : The substance is a clear mobile liquid at 20 degrees Celsius and a cloudy mobile liquid at -25 degrees Celsius after 72 hours. /When static and cooled, it releases a wax-like sediment, which disappears when heated./

Colour : pale yellow to yellow green

Odour : The characteristic grapefruit smell, reminiscent of orange oil with a note of citronella.

Content of carbonyl compounds such as decanal in % at least : 1,0

Residue after evaporation in % : 5,0 – 10,0

Odor threshold : no information

pH : no information

Melting point/freezing point in °C : <-25 °C at 1.013 hPa (ECHA)

Boiling point in °C : ~170.0 ± 10.0 @ 1029 hPa

Boiling point / boiling range : 160 °C at 1.019 hPa (ECHA)



**ALTEYA®**  
o r g a n i c s

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

Evaporation rate	:	No information
Flammability (solid substance, gas)	:	flammable liquid according to GHS criteria
Ignition temperature, in °C	:	54,8
Auto-ignition temperature, in °C	:	> 235,0°C
Upper flammability/explosion limit	:	39 g/m <sup>3</sup>
Lower flammability/explosion limit	:	345 g/m <sup>3</sup> / 0,7 volumetric % - 6,1 volumetric %
Vapour pressure at 25°C	:	195,4 Pa
Solubility (s)	:	Dissolves in 95% ethyl alcohol, propylene glycol, glyceride and mineral oils /often with clouding/.
Insoluble in	:	glycerin, water The water solubility range of the known constituents of grapefruit oil was found to be 0.54 - 1101 mg/l at 25 degrees Celsius.
Partition coefficient n-octanol/water Log/Pow	:	≥2,78 – ≤6,3 (pH value: 7, 25 °C) (ECHA)
Auto-ignition temperature	:	no information
Decomposition temperature	:	not applicable
Explosive properties	:	No information
Oxidizing properties	:	None
Characterization of particles	:	not applicable (liquid)
Density	:	0,853 g/cm <sup>3</sup> at 20 °C

### **Other information**

Refraction index : 1.470 - 1.480  
at n<sup>40</sup>/d

Relative density  
at d<sup>40</sup> : 0.840 to 0.860



**ALTEYA®**  
organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

Optical rotation : +90.0 to +96.0

Temperature class (EU, ATEX compliant) : T3  
Maximum permissible surface temperature of the equipment: 200°C

No other information available.

## 10. Stability and Reactivity

Note : The oil is stable under normal storage conditions. Once opened, it is susceptible to air oxidation and may start to deteriorate after twelve months.

### 10.1. Reactivity

Note : It is a reactive substance. Risk of ignition.

When heated : Risk of ignition. Vapors may form explosive mixtures with air.

### 10.2. Chemical stability

Note : The material is resistant to temperature and pressure or in the usual environment and under the foreseeable conditions of storage and operation.

### 10.3. Possible hazardous reactions

Hazardous reactions : Formation of an explosive gas mixture with air is possible. In case of unfavorable storage conditions (air leakage, heat build-up) self-ignition of moistened solids (e.g. cloth, cellulose, filter panel, binder) is possible. Reacts violently with oxidizing agents.

### 10.4. Conditions to avoid

Conditions to avoid : Keep away from heat, hot surfaces, sparks, open flame and other ignition sources. Smoking prohibited.

Avoid : build-up of electrostatic charges, heating, flames and hot Surfaces

Thermal decomposition : Heating causes evaporation and the formation of a flammable atmosphere is possible.



**ALTEYA®**  
organics

---

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

## 10.5. Incompatible materials

Materials to avoid : Combustible materials. Strong oxidizers.

## 10.6. Hazardous decomposition products

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

## 11. Toxicological Information

Liquid may irritate skin and eyes. Contains D'Limonene (CAS: 5989-27-5), a known sensitizer.

### 11.1. Information on toxicological effects

#### Acute toxicity

---

*Acute oral toxicity: LD50 > 5000 mg/kg body weight (standard acute method, limit test; similar to OECD 401)*

*Acute dermal toxicity: LD50 > 5000 mg/kg body weight (standard acute method, limit test; similar to OECD 402)*

#### HYDROCARBONS

ORAL ROUTE: LD50=800MG/KG

*D-Limonene(Cas:5989-27-5)*

*Oral Route:Ld50= 4,400 - 5,10mg/Kg*

*Species :Rat*

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

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

*SPECIES : Rat*

#### Decanal

*Oral route: DL50 = 3750 mg/kg*

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

*ORAL ROUTE: LD50=2200MG/KG*

*SPECIES: MOUSE*

*OECDGUIDELINE 401(ACUTE ORAL TOXICITY)*

Notes : Causes eye, skin and mucous membrane irritation.



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

Based on the available information, it has been proven that grapefruit oil has low acute toxicity when applied orally and dermally. Therefore, the substance grapefruit oil does not need to be classified for acute toxicity according to the criteria set out in Annex I of 1272/2008/EC (CLP/EU-GHS).

---

### Corrosion/Skin irritation

---

#### HYDROCARBONS

ORAL ROUTE: LD50=1300MG/KG

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

DERMAL ROUTE : LD50=5610MG/KG

SPECIES: RABBIT

OECDGUIDELINE 402(ACUTE DERMAL TOXICITY)

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

IRRITATION: AVERAGE SCORE =1.85

EFFECT OBSERVED : ERYTHEMA SCORE

SPECIES : RABBIT

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

#### 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

Notes

:

Causes skin irritation.

May cause irreversible skin damage; namely inflammation of the skin or formation of erythema and eschar or edema after exposure for up to four hours.

---

### Serious damage/eye irritation

---

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

CORNEAL HAZE: AVERAGE SCORE =1

SPECIES: RABBIT

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

IRITIS: AVERAGE SCORE =0.6

SPECIES : RABBIT

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

CONJUNCTIVAL REDNESS: AVERAGE SCORE =2.3



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

**SPECIES :** *RABBIT*

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

**Result** : Not to be classified as seriously damaging to the eyes or irritating to the eyes.

---

### **Respiratory or skin sensitization**

---

**Note** : Under the test conditions, d-limonene is classified as "H317 May cause sensitization by skin contact" "Category 1" according to CLP Regulation (EC) N ° (1272-2008).

---

### **Ingestion**

---

**Note** : no data.

---

### **Mutagenicity of germ cells**

---

**Note** : Not to be classified as germ cell mutagenic.

---

### **Carcinogenicity**

---

**Note** : CAS 5989-27-5: IARC group 3: The agent cannot be classified as to its carcinogenicity to humans.

---

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

---

**Note** : Not to be classified as toxic for reproduction

---

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

---

**Note** : Not to be classified as specific target organ toxicity (single exposure).

---

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

---

**Note** : Not to be classified as specific target organ toxicity (repeated exposure).

---

### **Aspiration hazard**

---

**Note** : Aspiration toxicity includes severe acute effects such as



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

chemical pneumonia, varying degrees of lung injury or death after aspiration. May be fatal if swallowed and enters the respiratory tract.

---

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

---

Note : No data.

---

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

---

Note : Toxicological characteristics are not comprehensively studied

---

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

---

Eye contact : No data available.

In case of skin contact : Causes skin irritation, May cause allergic reactions, itching, local redness

Ingestion : May cause irritation, abdominal pain, nausea, vomiting, diarrhea and dizziness.

Inhalation : May irritate respiratory tract, may cause throatache, cough, shortness of breath, dizziness and nausea.

---

#### **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 considerations**

---

Note : 0.5 - 5.0 g/kg can cause human death.



**ALTEYA®**  
o r g a n i c s

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

Individuals with a rash are referred to a skin specialist for a testing of allergic eczema.

---

### Other information

---

Note : No other information available.

## 11.2. Properties disturbing the functions of the endocrine system

Note : No information available

## 12. Ecological information

Note : Harmful to aquatic organisms with a long-lasting effect.

---

### 12.1. Toxicity

---

#### Product:

---

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

---

Fish

---

*Grapefruit oil*

*LL50 5,65 mg/l fish 96 h*

*D-(+)- limonene 5989-27-5*

*LC50 0,46 mg/l fish 96 h*

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

*FISH TOXICITY: DURATION OF EXPOSURE :96H*

*LC50=27.8MG/L*

*SPECIES :ONCORHYNCHUS MYKISS*

*OECDGUIDELINE 203(FISH,ACUTE TOXICITY TEST)*

---

### Toxic for Daphnia and other aquatic invertebrates

---

*Grapefruit oil*

*EL50 1,4 mg/l aquatic invertebrates24 h*

*D-(+)-limonene 5989-27-5*

*EC50 0,307 mg/l aquatic invertebrates48 h*

*Myrcene 123-35-3*

*EC50 1,47 mg/l aquatic invertebrates48 h*

*Linalool (Cas:78-70-6)*



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

*Crustacean Toxicity*      *Duration Of Exposure :48h*  
*Ec50=59mg/L*  
*Species :Daphnia Magna Oecd guideline 202 (Daphnia Sp.Acute)*

---

### **Algae/aquatic plants**

---

Note : EC50: 14,0 mg / l (48h) calculated value  
(source RIFM).

*D-(+)- limonene 5989-27-5*  
*ErC50 0,32 mg/l alga 72 h*

*Myrcene 123-35-3*  
*EC50 0,31 mg/l alga 72 h*

*Myrcene 123-35-3*  
*ErC50 0,342 mg/l alga 72 h*

#### **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

---

### **Chronic (long-term) toxicity:**

---

Note : no data

---

### **Fish**

---

*D-(+)-limonene 5989-27-5*  
*EC50 <0,67 mg/l fish 8 d*

*Linalool*  
*EC50 >100 mg/l microorganisms ECHA 30 min*

---

### **Shellfish**

---

*D-(+)-limonene 5989-27-5*  
*EC50 188 µg/l aquatic invertebrates 21 d*



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

---

### Algae/aquatic plants

---

Note : no data

---

### Other organisms

---

Note : no data

## **12.2. Persistence and degradability**

---

**Product:**

---

### Abiotic degradation

---

<b>Mixture components degradation</b>						
Substance name	CAS №	Process	Abiotic degradation	Time	Method	Source
D-(+)-limonene	5989-27-5	carbon dioxide generation	58,8 %	14 d		ECHA
D-(+)-limonene	5989-27-5	oxygen depletion	80 %	28 d		ECHA
Myrcene	123-35-3	oxygen depletion	76 %	28 d		ECHA

---

### Physical and photo-chemical elimination

---

Note : no data

---

### Biochemical degradation

---

Biodegradation : The substance is directly biodegradable.

## **12.3. Bioaccumulation**

---

**Product: The substance fulfills the criterion of being very bioaccumulative**

---

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

---

n-octanol/water (log KOW)	≥2,78 – ≤6,3 (pH value: 7, 25 °C) (ECHA)
---------------------------	--

<b>Bioaccumulation of the mixture components</b>
--



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

Substance name	CAS №	BCF	Log KOW	BOD5/COD
D-(+)-limonene	5989-27-5		4,38 (pH value: 7,2, 37 °C)	
Myrcene	123-35-3		4,82 (pH value: ~6,5, 30 °C)	
Linalool	78-70-6		2,9 (pH value: 7, 20 °C)	

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

Notes : Not accumulated in the biological environment

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

**Product:** No data available

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

Note : no data

#### **Surface tension**

Note : No data

#### **Adsorption/desorption**

Note : no data

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

This product doesn't contain substances considered persistent, bioaccumulative, nor toxic PBT.

**Product:**

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

Notes : No information available

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

**Product:**

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

Value : No information available

#### **Chemical oxygen demand (BOD)**

Value : No information available

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



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

Notes : No information available

---

## 12.7. Additional information

Notes : Do not allow products to enter streams, drains or other waterways.

## 13. Disposal Considerations

### 13.1. Waste treatment methods

#### 13.1.1. Disposal of product/packing

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

Product	Treat this material and its packaging as hazardous waste. Dispose of contents/container in accordance with the local/regional/national/ international regulation.
Contaminated packaging	Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. Packaging that cannot be cleaned is disposed of in the same way as the product.
Contaminated solids	Recommendation: Solids (e.g. cloth, cellulose, filter panels, binder) may be incinerated after consultation with the operator of the waste disposal facility and relevant authorities and in accordance with the necessary technical regulations. European waste catalogue: e.g. 15 02 02 Filter and absorbent materials contaminated with hazardous agents.
European Catalogue waste number	* <b>16 03 05</b> organic waste containing hazardous substances
13.1.2. Information on waste treatment	No special requirements.
13.1.3. Information on discharge in sewer systems	Do not discharge into drains, Do not allow discharge into the environment.
13.1.4. Other recommendations for waste disposal	No data available.



**ALTEYA®**  
Organics

---

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

## **14. UN proper shipping name**

Class 3

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

ADR/RID/ADN UN 1197  
IMDG Code UN 1197  
ICAO-TI UN 1197

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

ADR/RID/ADN EXTRACTS, AROMATIC, LIQUID  
IMDG Code EXTRACTS, AROMATIC, LIQUID  
ICAO-TI Extracts, aromatic, liquid

UN1197 CITRUS PARADISI PEEL OIL

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

ADR/RID/ADN 3  
IMDG Code 3  
ICAO-TI 3

### **14.4. Packing group**

ADR/RID/ADN II  
IMDG Code II  
ICAO-TI II

### **14.5. Environmental hazards - Harmful to aquatic life**



### **14.6. Special precautions for user**

Dangerous goods regulations (ADR) must be followed within the sites.

### **14.7. Sea transport of cargo in bulk according to instruments of the International Maritime Organization**

The cargo is not intended for transport in bulk.



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

#### 14.8. Information on all UN Model rules

##### Road, rail and inland water transport of dangerous goods (ADR/RID/ADN) - Additional information

Proper shipping name  
Details in the transport document

EXTRACTS, AROMATIC, LIQUID  
UN1197, EXTRACTS, AROMATIC,  
LIQUID, 3, II, (D/E), environmental  
hazard

F1  
3, "Fish and wood"

Classification code  
Hazard label(s).



Environmental hazards  
Special provisions (SP)  
Excluded quantities (EQ)  
Limited quantities (LQ)  
Transport category (TC)  
Tunnel restrictions code (TRC)  
Identif. Hazard No

yes (Harmful to aquatic life)  
601  
E1  
5 L  
3  
D/E  
30

##### International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name  
The details as per the shipper's declaration

EXTRACTS, AROMATIC, LIQUID  
UN1197, EXTRACTS, AROMATIC,  
LIQUID, (D-+)- Limonene), 3, III,  
54,8°C c.c., MARINE POLLUTANT  
yes (Harmful to aquatic life ), (D-+)-  
Limonene)

3, "Fish and wood"

Marine pollutant

Hazard label(s).



Special provisions(SP)  
Excluded quantities(EQ)  
Limited quantities(LQ)  
EmS  
Storage category

223, 955  
E1  
5 L  
F-E, S-D  
A

##### International Civil Aviation Organization (ICAO-IATA/DGR) -Additional information

Proper shipping name  
The details as per the shipper's declaration  
Environmental hazards

Extracts, aromatic, liquid  
UN1179, Extracts, aromatic, liquid, 3, III  
yes (Harmful to aquatic life )



Hazard label(s).

3



Special provisions(SP) A3  
Excluded quantities(EQ) E1  
Limited quantities(LQ) 10 L

## 15. Regulatory information

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

#### The relevant European Union (EU) regulations

#### Restrictions according to REACH Annex XVII

<b>Hazardous substances with restrictions (REACH, Annex XVII)</b>				
<b>Substance name</b>	<b>Name in accordance with the inventory</b>	<b>CAS №</b>	<b>Restriction</b>	<b>№</b>
Grapefruit Oil	this product meets the criteria for classification according to Regulation № 1272/2008/ EC		R3	3
Myrcene	flammable / pyrophoric		R40	40
D-(+)-limonene	flammable / pyrophoric		R40	40

#### Legend

R3 1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays;
- tricks and jokes;
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

2. Articles not complying with paragraph 1 shall not be placed on the market.

3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:

- can be used as fuel in decorative oil lamps for supply to the general public, and,
- present an aspiration hazard and are labelled with risk phrase H304.

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).

5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

a) lamp oils, labelled with risk phrase H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage";

b) grill lighter fluids, labelled with risk phrase H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

c) lamp oils and grill lighters, labelled with risk phrase H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010;

R40 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- 'whoopee' cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:  
'For professional users only'.

3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).

4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

### **List of substances subject to authorization (REACH, Annex XIV)/SVHC - list of candidate substances**

Not listed.

#### **Seveso Directive**

<b>2012/18/EC (Seveso III)</b>				
<b>No</b>	<b>Hazardous substance/hazard categories</b>	<b>Threshold quantity (in tonnes) for the application of the requirements at low and high risk potential</b>		<b>Notes</b>
E2	environmental hazards (hazardous to the aquatic environment, cat. 2)	200	500	57)

Notation

57) Hazardous to the aquatic environment in the category Chronic hazard, category 2

#### **Deco-Paint Directive**

**VOC content** 27 %  
230,3 g/l

#### **Directive on industrial emissions**

<b>VOC content</b>	27 %
<b>VOC content</b>	230,3 g/l

#### **Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)**



**ALTEYA®**  
organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

Not listed

### **Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

Not listed.

### **Water Framework Directive (WFD)**

<b>List of pollutants (WFD)</b>				
<b>Substance name</b>	<b>Name in accordance with the inventory</b>	<b>CAS №</b>	<b>Listed in</b>	<b>Notes</b>
Myrcene	Substances and preparations or constituents thereof that have proven carcinogenic or mutagenic properties or properties that may affect steroids, thyroid, reproduction or other endocrine functions in or through the aquatic environment		A)	

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

EU legislative acts : accordingly, EU regulations.

Permits or restrictions for use Youth work restriction should be observed

Permissions Not required

Restrictions on use No information

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 Occupational exposure limits EH40.

Other legal acts, restrictions



and prohibitive standards

No information

## 15.2. Chemical Safety Assessment

No information.

The supplier has 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]**

**Specifying the changes :** **Classification, change of allergens and additional information about the product based on gas-chromatographic analysis and latest changes.**

### Abbreviations and acronyms:

Abbreviations	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>Aquatic Chronic 2</b>	Harmful to aquatic life - chronic hazard
<b>Asp Tox 1</b>	Aspiration hazard
<b>BCF</b>	bioconcentration factor
<b>BOD</b>	Biochemical Oxygen Demand
<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>COD</b>	Chemical oxygen demand
<b>DGR</b>	Dangerous Goods Regulations (see IATA/DGR))
<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>ELINCS</b>	European List of Notified Chemical Substances
<b>EmS</b>	Emergency Schedule
<b>Flam,liq</b>	Flammable liquid
<b>GHS</b>	"Globally Harmonized System of Classification and Labelling of Chemicals", developed by the United Nations



<b>IATA</b>	International Air Transport Association
<b>IATA/DGR</b>	Dangerous Goods Regulations (DGR) for the air transport (IATA)
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods Code
<b>log KOW</b>	n-octanol/water
<b>MARPOL</b>	International Convention on Prevention of Pollution from Ships (abbr. to "Marine Pollutant")
<b>NLP</b>	A substance that no longer has the properties of a polymer
<b>PBT</b>	Persistent, bioaccumulative and toxic
<b>PNEC</b>	Predicted No-Effect Concentration
<b>REACH</b>	Registration, Evaluation, Authorisation and Restriction of Chemicals
<b b="" rid<=""></b>	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulation on Carriage of Dangerous Goods by Rail)
<b>Corrosion/irritation 2</b>	Skin irritation
<b>Skin Sens.</b>	skin sensitization
<b>vPvB</b>	very Persistent and very Bioaccumulative
<b>EO № EU List</b>	(EINECS, ELINCS и NLP-list) is the source for the seven-digit EC number, identifier of substances in the commercial network within the EU (European Union)
<b>Index №</b>	the index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
<b>VOC</b>	Volatile Organic Compounds

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

- Regulation (EC) No 1907/2006 (REACH), as amended by (EU) 2020/878
- 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>
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H411	Toxic to aquatic life with long lasting effects
EUH 208	Contains Limonene, Myrcene, Linalool. May cause an allergic reaction.
	<b>List of safe handling instructions used in the safety document</b>
P102	Keep out of reach of children
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P273	Avoid release to the environment.



**ALTEYA®**  
Organics

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | info@alteya.com | AlteyaOrganics.com

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P331	Do NOT induce vomiting
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P331	Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of water/...
P391	Collect spillage
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up
P501	Dispose of contents / container at an approved disposal site in accordance with 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.  
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.



**ALTEYA<sup>®</sup>**  
o r g a n i c s

---

Alteya's Campus, Village of Yagoda 6167, St.Zagora Region, Bulgaria | +359 700 15 502 | [info@alteya.com](mailto:info@alteya.com) | [AlteyaOrganics.com](http://AlteyaOrganics.com)

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.

**END!**



**LIST OF 26 ALLERGEN SUBSTANCES / ANNEX III TO REGULATION (EC) NO 1223/2009**

**Customer:** „ALTEYA ORGANICS” LLC – 1. “Rozovarna” St., Yagoda village, 6167, Stara Zagora  
salesbg@alteya.com, http://alteya.com, +359 700 15 502

**Name of product:** Organic Grapefruit Oil (Citrus Paradisi Peel 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 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	-	-	-
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 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	92,5	-	92,5
22	LINALOOL	H315	78-70-6	201-134-4	0,9	-	0,9
23	HYDROXYISOHEXYL 3- CYCLOHEXENE CARBOXALDEHYDE (LYRAL)	H317	31906-04-4	250-863-4	-	-	-
24	METHYL 2-OCTENOATE	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 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