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MATERIAL SAFETY DATA SHEET

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

Organic Helichrysum Oil

Version 01 Date of creation: 08.02.2021 Date of print: 15.02.2021

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

1.1. Product Identifier

Trade name	:	Natural essential Organic Helichrysum Oil– (Helichrysum Italicum).
Substance name (INCI)	:	HELICHRYSUM ITALICUM FLOWER OIL
Substance No	:	-
CAS No	:	90045-56-0
EINECS	:	289-918-2
Biological origin	:	Obtained by distilling the colors of Helichrysum italicum, Asteraceae.

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

Use of the substance/ mixture	:	For application in the area of perfumery, cosmetics and pharmacy independently or as a recipe component, a part of composition.
Recommended restrictions on use	:	No data available

1.3. Details of the supplier of the safety data sheet

Manufacturer	**:** ALTEYA ORGANICS LLC
Mailing address/Postal code	**: 6167,** village of Yagoda, Stara Zagora Region 1, Rozovarna St.,
Country identifier/ Postal code/city or town	**:** Bulgaria
Telephone/Mobile/Fax	**:** +359 700 15 502
E-mail of the competent person responsible for the Safety Data	

Sheet : salesbg@alteya.com
National contact person : Kaloyan Stoev
Website : https://www.alteyaorganics.bg/

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
http://www.pirogov.net or telephone number: 112

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.	Skin sensitization	(Skin sens 1)	H317
4.1	Chronic	Dangerous for the aquatic environment	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

GHS02 GHS08 GHS07 GHS09

Signal word : Hazardous

Hazard statements : H226 Flammable liquid and vapor
H304 May be fatal if ingested or entered respiratory tract
H315 Causes skin irritation

H317 May cause an allergic skin reaction

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

EUH208 Contains: Limonene, Linalool.
May cause allergic reaction.

Safety recommendations :

Safety recommendations
- General — P102 Keep out of reach of children

Safety recommendations
- Prevention
  - P210 Avoid exposing to heat/sparks/naked flame/hot surfaces. Smoking is not permitted.
  - P241 Use electrical/ventilating/lighting /…/ equipment, explosion-proof.
  - P261 Avoid inhaling of vapors.
  - P262 Avoid contact with eyes, skin or clothing.
  - P233 Keep container tightly closed.
  - P273 Avoid release to the environment.
  - P280 Wear protective gloves / protective clothing / eye protection / face protection.

Safety recommendations
- As a reaction
  - P301 + P310 IF INGESTED: immediately call TOXICOLOGY CENTRE or a physician
  - P302 + P352 IF SKIN CONTACT: Wash thoroughly with soap and water.
  - P305+ P351+P338 If in the eyes: Rinse carefully 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.
- If stored
  - P403+P235 Store in well ventilated place. Store in a cool place.
  - P391 Collect the spillage.
- 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

INGRIDIENT	*IDENTIFIERS*	*%*	*CLASSIFICATION*
HELICHRYSUM ITALICUM FLOWER OIL	EINECS NO: 289-918-2 CAS NO: 90045-56-0	*100,0*	*Flam. Liq. 3 (H226)* *Asp. Tox. 1 (H304)* *Skin Irrit. Cat.2, H315* *Skin Sens. Cat.1, H317* *Aquatic Chronic 1, H410*
α-PINENE	*EINECS NO: 201-291-9* *CAS NO: 80-56-8*	*1,0 – 10,5*	*Acute Tox. Oral 5 (H303)* *Skin Sens. 1B (H317)* *Skin Irrit. 2 (H315)* *Asp. Tox. 1 (H304)* *Flam. Liq. 3 (H226)* *Aquatic Acute 1 (H400)* *Aquatic Chronic 1 (H410)*
Camphene	*EINECS NO: 209-275-3 / 201-234-8* *CAS NO: 565-00-4 / 79-92-5*	*0,1 – 1,0*	*Eye Irrit. 2B(H320)* *Aquatic Acute 1 (H400)* *Aquatic Chronic 1 (H410)* *Flam. Sol. 2 (H228)*
b-PINENE	*EINECS NO: 204-872-5* *CAS NO: 127-91-3*	*0,1 – 1,0*	*Flam. Liq. 3 – H226* *Skin Sens. 1 – H317* *Skin Irrit. 2 – H315* *Asp. Tox. 1 – H304* *Aquatic Acute 1 – H400* *Aquatic Chronic 1 – H410* *STOT - sing. exp., Cat. 3, H335*
LIMONENE	*EINECS NO: 227-813-5* *CAS NO: 5989-27-5*	*1,0 – 3,0*	*Flam. Liq. 3 – H226* *Skin Irrit. 2 – H315* *Skin Sens. 1 – H317* *Asp. Tox. 1 – H304* *Aquatic Acute 1 – H400* *Aquatic Chronic 1 – H410*
Cis -Beta -Ocimene	*EINECS NO: 237-641-2* *CAS NO: 13877-91-3*	*0,1 – 1,0*	Flam. Liq. 3, H226; Asp. Tox. 1, H304
LINALOOL	*EINECS NO: 201-134-4* *CAS NO: 78-70-6 INDEX NO: -* *INCI NAME: LINALOOL* *REACH REGIST. NO: -*	*0,5 – 1,5*	*Skin Irrit. 2 H315 Eye Irrit. 2A H319* *Skin Sens. Cat.1, H317*
β-HIMACHALENE-CIS	*EINECS NO: -* *CAS NO: -*	*0,1 – 3,0*	*N/A*
NERYL ACETATE	*EINECS NO: 205-459-2* *CAS NO: 141-12-8*	*15,0 – 30,0*	*Skin Irrit. 2 (H315)* *Skin Sens. 1B (H317)* *Aquatic Chronic 2,H411*
Selinene	*EINECS NO: -*	*1,0 – 15,0*	*N/A*

	CAS NO: -		
α-Curcumene	*EINECS NO: -* *CAS NO: 4176-17-4*	*2,0 – 7,0*	*N/A*
α -Bergamotene	*EINECS NO: -* *CAS NO: 13474-59-4*	*1,0 – 5,0*	*Asp. Tox. 1, H304*
NEROL	*EINECS NO: 203-378-7* *CAS NO: 106-25-2*	*1,0 – 4,0*	*Skin Irrit. Cat.2, H315* *Skin Sens. 1 – H317* *Eye .irrit, Cat. 2A; H319*
β-HIMACHALENE-TRANS	*EINECS NO: -* *CAS NO: -*	*5,0 – 18,0*	*N/A*

4. First Aid Measures

4.1. Description of first aid measures

- General notes : If you feel unwell, seek medical advice (show the label if possible)

- In case of inhalation : If symptoms occur, move to fresh air and seek medical attention.

- In case of skin contact : Wash using cool running water.If symptoms of skin irritation (redness) occur, seek medical attention.

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids for 15 minutes. If symptoms persist, seek medical attention.

- In case of ingestion : In case of ingestion of a small quantity rinse the mouth with milk or water and consult a doctor. Do not induce vomiting.

- Self-protection of emergency staff : No additional data available

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

Symptoms : If not washed immediately can cause irritation of eyes and cornea injury. The repeated exposure can cause allergic dermatitis. Inhalation of high vapor concentrations can cause anesthetic effect.

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.
No additional data available

5. Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media	:	Use water jet, alcohol-free foam, multifunctional ABC powder, carbon dioxide.
Unsuitable extinguishing media	:	Water jet (direct flow).

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	:	Carbon oxide (CO), carbon dioxide (CO2), smoke
Specific hazards during fire-fighting	:	No information available

5.3. Advice for firefighters:

Special protective equipment for firefighters	:	Use self-contained breathing apparatus and protective clothing.
Additional data	:	Fight fire using the usual precautionary 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 precautions	:	Stop the leakage if it can be done without a risk. Get introduced with the measures specified in sections 7 and 8.
Emergency procedures	:	Elimination of ignition sources, provision of adequate ventilation, dust control.

6.1.2. For the persons responsible for emergencies

Use personal protective equipment. Keep people away from spills/leaks in the direction against the wind. Avoid dust formation. For personal protection see section 8.

6.2. Environmental precautions

Environmental precautions	:	Do not wash in surface water. In case the sewer system and the water sources are contaminated, inform competent authorities.

6.3. Methods and materials for containment and cleaning up

6.3.1. For containment	:	Bunding, covering of drains. Control leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite or diatomaceous earth in drums.
6.3.2. For cleanup	:	Absorb the leakage using non-flammable substance (such as detergent – do not use solvents) and transfer in containers. Use non-sparking tools and equipment.
6.3.3. More information	:	No data available.
Methods and materials for containment and cleaning up	:	Use mechanical equipment when handling the material. Keep in suitable, closed containers for disposal. Rinse with water.

6.4. Reference to other sections

For personal protective: see SECTION 8.

7. Handling and Storage

7.1. Precautions for safe handling

Precautions	:	Handle according to good industrial, hygiene and safety practice. Avoid contact with eyes and skin. In an emergency, wash your eyes thoroughly and a shower should be available immediately. Store tightly closed in a dry and cool place.
Fire-fighting measures	:	The firefighters must be equipped with adequate personal protective equipment (see section 8). The high temperature may increase the pressure in the containers – cool the container, spraying water on it. Avoid inhaling the released evaporations. Avoid breathing vapor emitted. Keep away from ignition sources.
Measures to avoid transformation into aerosols and powder	:	Use adequate ventilation.

Environmental precautions	:	Follow the instructions concerning product storage.
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	:	Keep away from heat, sunlight and other ignition sources. Store in a cool place
Packing materials	:	Store in glass and metal containers - in dark and cold premises and in full containers. Use packing materials preserving the integrity and quality of the product.
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
Additional information on storage conditions	:	Store in a closed container.
Requirements to storage areas and container	:	Store only in the original packing.
Recommendations for protection fire and explosions	:	Not known
Class of dust explosion	:	No data available.
Recommendations for primary storage	:	Store in dark and cold place.
General rules are recommended according to		**СД 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 raw material in the production of perfumery and cosmetics and use in food and beverages.

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

(R)-p-Mentha-1,8-diene - Index: NA, CAS: 5989-27-5, EC No: 227-813-5 TLV TWA - TLV STEL- VLE 8h- VLE short: None.

Other occupational exposure limits

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

- **Values affecting human's health**

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

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

EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM LOCAL EFFECTS.
DNEL: 15MG OF SUBSTANCE/CM2

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

EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: LONG TERM LOCAL EFFECTS.
DNEL: 15MG OF SUBSTANCE/CM2

EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL: 16.5MG OF SUBSTANCE/M3

EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL: 2.8MG OF SUBSTANCE/M3

FINAL USE: CONSUMERS.

EXPOSURE METHOD: INGESTION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL: 1.2MG/KGBODY 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/CM2

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/CM2

EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL: 4.1MG OF SUBSTANCE/M3

EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL: 0.7MG OF SUBSTANCE/M3

- **Values affecting human's health - ß-Pinene**

End point	Limit value	Protective purpose, mode of exposure	Used in	Exposure time
DNEL	5,69 mg/m³	human, inhal.	work. (industry)	chronic - systemic effects
DNEL	0,8 mg/kg bw/day	human, derm.	work. (industry)	chronic - systemic effects
DNEL	54 µg/cm²	human, derm.	work. (industry)	chronic - systemic effects

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*

- **Environmental values - ß-Pinene**

End point	Limit value	Environment	Exposure time
PNEC	1,004 μg/l	freshwater	short-term (single exposure)
PNEC	0,1 μg/l	sea water	short-term (single exposure)
PNEC	3,26 mg/l	Treatment plant (STP)	short-term (single exposure)
PNEC	0,337 mg/kg	freshwater sediment	short-term (single exposure)
PNEC	0,034 mg/kg	marine sediment	short-term (single exposure)
PNEC	0,067 mg/kg	soil	short-term (single exposure)

8.2. Exposure controls

8.2.1. Appropriate engineering control

Measures related to the substance/mixture to prevent exposure during identified uses : General or local ventilation for the exhaust gases in order to fulfil the exposure restriction. The electrical equipment should be grounded and correspond to the applicable electrical code.

8.2.2. Personal protective equipment:

8.2.2.1. Eye / face protection: Avoid eye contact. Use safety goggles (safety goggles according standard EN166) designed to protect against liquid splashes.

8.2.2.2. Skin protection

Hands protection: Wear appropriate protective gloves (resistant to chemical agents according standard EN374) in case of prolonged or repeated skin contact. Type of recommended gloves: nitrile rubber (butadiene –

acrylonitrile copolymer rubber (NBR)) or PVA (polyvinyl alcohol).

Other skin protection: Preventive protection of skin / creams / ointments. Fireproof clothing. The working wear used by the employees should be regularly washed. After contact with the product, all the contaminated parts of the body should be washed.

8.2.2.3. Protection of respiratory tract: Make sure the area is well ventilated. In case of short-term exposure and low pollution use equipment for respiratory filters. In case of intensive or long-term exposure use breathing protective equipment not depending on the circulating air.

8.2.2.4. Thermal hazards: No data available

8.2.3. Environmental exposure controls : Preservation from pollution of sewer systems, surface and subsurface waters.

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

Training measures related required to avoid exposure : Training of the staff is organized according to a company schedule.

Organization measures to avoid exposure : Training of staff

Technical measures to avoid exposure : Training of staff

Environmental exposition controls

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

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance : easy flowing liquid

Color : colorless or light yellow

Odor	:	rich, sharp, warm, sweet-herbaceous with honey notes
Odor threshold	:	No data available from our supplier.
Solubility in ethanol	:	1:3
Melting point/ freezing point	:	No data available
Boiling point	:	No data available
Boiling point / boiling range	:	No data available
Flash point in ^{o}C	:	40 - 53
Evaporation rate	:	No data available
Flammability (solid substance, gas)	:	No data available
Upper flammability/ explosion limit	:	No data available
Lower flammability/ explosion limit	:	No data available
Vapor pressure	:	No data available
Density of vapors	:	No data available
Relative vapor density	:	No data available
Solubility(ies)	:	essential and glyceride oils
Insoluble in	:	water
Partition coefficient n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available

Explosivity	:	No data available
Oxidizing properties	:	No data available

Other information

Refractive index	:	1.465- 1.490
Relative density	:	0.875 - 0.910
Optical rotation at °	:	-5,0 up to + 5,0

No other information available.

10. Stability and Reactivity

10.1. Reactivity

Advice	:	Stable under recommended storage conditions.

10.2. Chemical stability

Advice	:	Stable under normal conditions (< 25 ° C).

10.3. Possible hazardous reactions

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

10.4. Conditions to avoid

Conditions to avoid	:	Storage at high temperatures > 25°C. Immediate heating. Air. Sunlight. Storing the product in open containers will form peroxides and reduce quality.
Thermal decomposition	:	No data available

10.5. Incompatible materials

Materials to avoid	:	Alkali metals, ammonia, oxidizers, peroxides, strong inorganic acids, P.V.C

10.6. Hazardous decomposition products

Hazardous decomposition products	:	The thermal decomposition may release / form carbon monoxide (CO) and carbon dioxide (CO2).

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

Helichrysum Oil

Method	**:**	LD50
Species	**:**	rat
Exposition routes	**:**	**oral**
Effective dose	**:**	**-**
Period of exposition	**:**	**-**
Results	**:**	> 5.000mg/kg

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)

alpha-Pinene 3.700 mg/kg (rat)	*beta-Pinene 4.700 mg/kg (rat)*	*Neryl acetate LD50 > 5 g/kg (Rat)*
NEROL (CAS: 106-25-2) Oral:LD50 = 4500 mg/kg		

Corrosion/Skin irritation

Helichrysum Oil

Method	**:**	LD50
Species	**:**	rabbit
Exposition routes	**:**	**dermal**
Effective dose	**:**	**-**
Period of exposition	**:**	**-**
Results	**:**	> 5.000mg/kg

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*
OECDG$_{UIDELINE}$ 402(ACUTE DERMAL TOXICITY)

LINALOOL(CAS:78-70-6)
IRRITATION: *AVERAGE SCORE =1.85*
EFFECT OBSERVED : *ERYTHEMA SCORE*
SPECIES : *RABBIT*
DURATION OF EXPOSURE : 24HOECDG$_{UIDELINE}$ 404(ACUTE DERMAL IRRITATION /CORROSION)

alpha-Pinene *> 5.000 mg/kg (rabbit)*	*Neryl acetate* *LD50 > 5 g/kg (Rabbit)*	-

Notes : Irritating to skin

Serious damage/eye irritation

Result : Seriously damages eyes.

Note : It can cause irreversible effect on eyes, such as damage of eye tissue or serious physical degradation of vision that is not completely reversible to the end of the observation on the 21st day. The serious damage of eyes is characterized by destruction of cornea, persistent cornea opacity and iritis.

LINALOOL(CAS:78-70-6)
***CORNEAL HAZE**:* *AVERAGE SCORE =1*
SPECIES : *RABBIT*
DURATION OF EXPOSURE : 24HOECDG$_{UIDELINE}$ 405 (ACUTE EYE IRRITATION /CORROSION)
IRITIS: *AVERAGE SCORE =0.6*
SPECIES : *RABBIT*
DURATION OF EXPOSURE : 24HOECDG$_{UIDELINE}$ 405(ACUTE EYE IRRITATION /CORROSION)

CONJUNCTIVAL REDNESS: AVERAGE SCORE =2.3

SPECIES : *RABBIT*
DURATION OF EXPOSURE : 24HOECDG$_{UIDELINE}$ 405(ACUTE EYE IRRITATION /CORROSION

Respiratory or skin sensitization		
Note	:	The product contains ingredients that cause an allergic reaction in contact with the skin.

Ingestion		
Note	:	Ingestion of large quantities can be dangerous.

Mutagenicity of germ cells		
Note	:	No data available

Carcinogenicity		
Note	:	CAS 5989-27-5: IARC Group 3: The agent cannot be classified in connection with its carcinogenicity to people.

Summary of the assessment of CMR properties		
Note	:	No data available

STOT (specific target organ toxicity) — single exposure		
Note	:	No data available

STOT (specific target organ toxicity) — repeated exposure		
Note	:	No data available

Aspiration hazard		
Note	:	Inhalation of high vapor concentrations can cause anesthetic effect.

Information on possible routes of exposure

Note	:	Dermal, Inhalation.

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

Note	:	Inhalation may cause coughing and breathing difficulties. Ingestion irritates the respiratory tract and may cause damage to the central nervous system. Skin contact. Irritation of skin contact.

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

Mixture and substance information

Note	:	Toxicological characteristics are not comprehensively studied

Other information

Note	:	The toxicological classification is based on the information

related to the content and the available information.

12. Ecological information

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
OECDGUIDELINE 203(FISH,ACUTE TOXICITY TEST)

beta Pinene
LC50 0,68 mg/l rainbow trout (Oncorhynchus mykiss) - ECHA 96 h

Toxic for Daphnia and other aquatic invertebrates

LINALOOL(CAS:78-70-6)
CRUSTACEAN TOXICITY *DURATION OF EXPOSURE :48H*
EC50=59MG/L
SPECIES :DAPHNIA MAGNA
OECDGUIDELINE 202(DAPHNIA SP.ACUTE)

beta Pinene
EC50 1,09 mg/l daphnia magna ECHA 48 h

Algae

LINALOOL(CAS:78-70-6)
IMMOBILISATION TEST
ALGAE TOXICITY: *DURATION OF EXPOSURE :96H*
ECR50=88.3MG/L
SPECIES :DESMODESMUS SUBSPICATUS
OTHER GUIDELINE

beta Pinene
ErC50 0,7 mg/l Pseudokirchneriella subcapitata ECHA 72 h

Bacteria

Note : No data available

Chronic (long-term) toxicity:

Note : No data available

Fish

Note : No data available

Shellfish

Note : No data available

Algae/water plants

Note : No data available

Other organisms

beta Pinene
EC50 326 mg/l microorganisms ECHA 3 h

beta Pinene
growth (EbCx) 10% 38 mg/l microorganisms ECHA 3 h

12.2. Persistence and degradability

Product:

Abiotic degradation

Note : No data available

Physical and photo-chemical elimination

Note : No data available

Biochemical degradation

Note : Biodegradation is expected

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		
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.

12.6. Other adverse effects

Product:

Biochemical oxygen demand (BOD)		
Value	:	No additional data available
Chemical oxygen demand (COD)		
Value	:	No additional data available
Additional ecological information		
Notes	:	Do not flush into surface water

12.7. Additional information

Notes	:	Do not flush into surface water

13. Disposal of Waste

13.1. Waste treatment methods

13.1.1. Disposal of product/packing

Codes/designation of waste according to LoW: -

15 01 10*		packaging containing residues of or contaminated by hazardous substances
16 03 05*		organic wastes containing hazardous substances
Product	:	Collect and dispose of waste products in an authorized disposal facility.
Contaminated packaging material	:	Completely empty all containers. Keep the label (s) on each container. Give to a certified contractor for disposal.
European Waste Catalogue Number	:	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	:	Do not empty into drains or waterways..
13.1.4. Other recommendations on waste disposal	:	No data available

14. Transport Information

Class 3, Flammable liquid

14.1. UN number

UN1197

14.2. UN proper shipping name

HELICHRYSUM ITALICUM FLOWER OIL

14.3. Transport hazard class(es)

1197 LIQUID FLAVORING EXTRACTS

14.4. Packing group

III

14.5. Environmental hazards

(Neryl acetate, Caryophyllene oxide)

14.6. Special precautions for user

UN N	:	UN 1197
Name and description/3.1.2/	:	EXTRACTS, AROMATIC, LIQUID.
Class /2.2/		3
Classification code /2.2/	:	F1
Packing group/2.1.1.3/		III
Labels /5.2.2./		3
Special provisions /3.3/	:	640E
Limited and excepted Quantities		
- /3.4/	:	5L
- /3.5.1.2/	:	E1
Packaging		
Packing instructions /4.1.4/	:	P001; IBC03; LP01; R001
Special packing provisions	:	-
Mixed packing provisions /4.1.10/	:	MP19
Portable tanks and bulk containers		
- Instructions /4.2.5.2/ /7.3.2/	:	T2
- Special provisions /4.2.5.3/	:	TP1
ADR tank		
- Tank code /4.3/	:	LGBF
- Special provisions /4.3.5/ /6.8.4/	:	-
Vehicle for tank carriage /9.1.1.2/	:	FL
Transport category		
- (Tunnel restriction code) /1.1.3.6/ /8.6/	:	3; D/E
Special provisions for carriage		
- Packages /7.2.4/	:	V12
- Bulk /7.3.3/	:	-
- Loading, unloading and handling /7.5.11/	:	-
- Operation /8.5/	:	S2
Hazard identification No. /5.3.2.3/		30

14.7. Transport in bulk according to Annex II to MARPOL 73/78 and IBC

Transport Icon **Class 3.3 – Highly flammable liquids, hazardous at elevated Temperature**

Road transport

ADR	Class 3, packing group III
RID	Class 3, packing group III Tunnel restriction No. (D/E)

Waterway transport

ADN	Class 3, packing group III

Maritime transport

IMDG	Class 3, packing group III EMS No. F-E, S-D

Air transport

IATA/CAO	Class 3, packing group III

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
EU legislative acts		: accordingly, EU regulations.
Other EU legislative acts		: According to the effective Regulations

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 24 months from date of manufacture.

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

Abbr.	Description of used abbreviations
ADN	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)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement on the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	hazardous to the aquatic environment - chronic
Asp. Tox.	aspiration hazard
BCF	bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (prepares the most comprehensive list of chemicals)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (Classification, Labelling and Packaging)
CMR	Carcinogenic, mutagenic and toxic for reproduction (substance)
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Flam. Liq.	flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" ", developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
Log KOW	n-octanol/water
MARPOL	International Convention on Prevention of Pollution from Ships (abbr. to "Marine Pollutant)

NLP	Substance not having its polymer already
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulation on Carriage of Dangerous Goods by Rail)
Skin Irrit	Skin irritation
Skin Sens.	skin sensitization
vPvB	very Persistent and very Bioaccumulative
EU No in the list of the EC	(EINES, ELINCS AND NLP – LIST) is the source of the seven number EU number, identifier of the substances on the market in the EU (European Union)
Index No	The index No is the identification code specified for the substance in part 3 of annex VI of Regulation (EC) 1272/2008
VOC	Volatile Organic Compounds

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)

	List of relevant phrases (code and full text as defined in Section 2 and 3)
Code	**Text**
H226	Flammable liquid and vapor
H304	May be fatal if ingested or entered respiratory tract
H315	Causes skin irritation
H317	May cause allergic skin reaction
H410	Very toxic to aquatic life with long-lasting effects
EUH 208	Contains Limonene, Linalool. May cause allergic reaction.
	List of instructions for safe treatment, used in the safety document
P102	Keep out of reach of children
P210	Avoid exposing to heat/sparks/naked flame/hot surfaces. Smoking is not permitted.
P241	Use electrical/ventilating/lighting /…/ equipment, explosion-proof.
P233	Keep container tightly closed.
P261	Avoid inhaling evaporations
P262	Avoid eye contact
P273	Avoid release to the environment
P280	Use protective gloves / protective clothing / protective goggles / protective face mask
P301+310	IF INGESTED: immediately call TOXICOLOGY CENTRE or a physician
P302+P352	IF SKIN CONTACT: wash with plenty of water / ….
P305+P351+ P338	If eye contact: Wash carefully with water for several minutes. Remove the contact lenses if there are such and if possible. Continue washing.
P333 + P313	If skin irritation or rash occurs: Seek medical advice/help

P403+P235	Store in well ventilated place. Store in a cool place.
P391	Collect the spillage.
P501	Dispose of the content / container at an approved disposal site according to the local and national regulations

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

The information provided is intended purely as a guidance for safe handling, usage, treatment, storage, transportation, disposal and discharge and should not be considered a guarantee or quality specification.

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

Due to the many factors beyond our control while using this product we cannot take responsibility for accidents, loss or damage, arising from its usage.

E N D!

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

Customer: „ ALTEYA ORGANICS LLC, 1, Rozovarna St., 6167, village of Yagoda, Stara Zagora region, salesbg@alteya.com, http://alteya.com Tel.: +359 700 15 502

Name of product: Organic Helichrysum Oil (Helichrysum Italicum).

	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	*3.0*	-	*3.0*
22	LINALOOL	H315	78-70-6	201-134-4	*1.40*	-	*1.40*
23	HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE (LYRAL)	H317	31906-04-4	250-863-4	-	-	-
24	METHYL 2-OCTYNOATE	H302; H317	111-12-6	203-836-6	-	-	-
25	EVERNIA FURFURACEA LICHEN EXTRACT (TREEMOSS EXTRACT)	H317	90028-67-4	289-860-8	-	-	-
26	EVERNIA PRUNASTRI (OAK MOSS)	H317	90028-68-5	289-861-3	-	-	-

According to Regulation EO 1223/2009 и Directive 76/768/EEC is hereby amended as follows:
The presence of the substance must be indicated in the list of ingredients referred to inArticle 6(1)(g) when its concentration exceeds:— **0,001 %**in"**leave-on"**products, (and)— **0,01 %**in**"rinse-off"**products