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 1272 of 2008 and Regulation (EU) 2015/830

Organic Thyme Oil

Version 01 Date: 05.02.2020 Date of print: 05.02.2020

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

1.1. Product Identifier

Trade name	:	Organic Thyme oil
Substance name (INCI)	:	THYMUS VULGARIS FLOWER/LEAF OIL
REACH Registration No	:	-
CAS No	:	84929-51-1 / 8007-46-3
EO No	:	284-535-7 / -
Biological origin	:	Obtained by steam distillation of the fresh or dried aboveground part of Thyme.

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 and cosmetics, 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, 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

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

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 GHS				
Chapter	**Subsection**	**Class of hazard**	**Class of hazard and category of hazard**	**Hazard statements**
3.1	Oral	Acute toxicity	(Acute Tox.4)	H302
2.6.	Flam.	Flammable liquids	(Flam. Liq. 3)	H226
3.2	Skin	Skin irritation	Corrosion/irritation 2	H315
3.4	Sens.	Skin sensitization	(Skin sens 1)	H317
3.3	Eye	Serious eye damage / eye irritation	(Eye Dam. 1)	H318
4.1	Chronic	Hazardous to the aquatic environment	Aquatic Chronic 2	H411

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 GHS07

Signal word : Hazardous

Hazard statements :

H226 Flammable liquids and vapors.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause allergic skin reaction.
H318 Causes serious eye damage.

Hazard statements concerning

environment : H411 Toxic to aquatic life with long-lasting effects.

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

Safety recommendations

Safety recommendations

- General

P102 Keep out of reach of children.

Safety recommendations

- Prevention

P210 Keep away from heat/sparks/open flame/hot surfaces. No smoking.

P241 Use explosion-proof electric/ventilating/ lighting equipment.

P242 Use non-sparking tools.

P273 Avoid release to the environment.

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

Safety recommendations

- As a reaction

P305+ P351+ P338 If eye contact: Rinse thoroughly with water for several minutes. Remove contact lenses if there are such and if possible. Continue rinsing.

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

P501 Dispose the contents / container at location authorized according 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

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INGRIDIENT	IDENTIFIERS	%	CLASSIFICATION
THYMOL	*EINECS NO: 201-944-8* *CAS NO: 89-83-8*	*> 80,0%*	*Acute tox, Oral (Cat. 4), H302* *Skin corr. (Cat. 1B), H314* *Ch. aq. tox. (Cat. 2), H411*
CARVACROL	*EINECS NO: 207-889-6* *CAS NO: 499-75-2*	*0,2 – 40,0*	*(Acute Tox. 4) H302* *(Skin Irrit. 2) H315* *(Eye Irrit. 2) H319*
CARVACROL METHYL ETHER	*EINECS NO: -* *CAS NO: 6379-73-3*	*0,5 – 6,9*	*(Acute Tox. 4) H302* *(Skin Irrit. 2) H315* *(Eye Irrit. 2) H319* *Skin Sens. 1 – H317*
CITRAL	*EINECS NO: 226-394-6* *CAS NO: 5392-40-5*	*0,01 – 0,5*	*Skin Sens. 1 – H317* *Skin Irrit. 2 – H315* *Eye Irrit. 2 - H319*
GERANIOL	*EINECS NO: 203-377-1* *CAS NO: 106-24-1*	*0,01 – 0,5*	*Acute toxi, Cat. 5, Oral, H303* *Skin corr/irrit, Cat.2, H315* *Eye Dam. 1 - H318* *Skin Sens. 1 – H317* *Ac aq. tox., Category 2, H401*
LIMONENE	*EINECS NO: 227-813-5* *CAS NO: 5989-27-5*	*0,1 – 1,0*	*Flam. Liq. 3 – H226* *Skin Irrit. 2 – H315* *Skin Sens. 1 – H317* *Asp. Tox. 1 – H304* *Aquatic Acute 1 – H400* *Aquatic Chronic 1 – H410*
TERPINEN-4-OL	*EINECS NO: 209-235-5* *CAS NO: 562-74-3*	*0,2 – 3,9*	*Eye Irrit. 2 - H319* *Acute Tox.Oral 4 – H302* *Skin Irrit. 2 – H315*
α-TERPINEOL	*EINECS NO: -* *CAS NO: 98-55-5*	*До 5,0*	*Skin Irrit. 2 – H315* *Eye Irrit. 2 - H319*
BORNEOL	*EINECS NO: 208-080-0* *CAS NO: 507-70-0*	*0,4 – 5,7*	*Acute Tox Oral 4.; H302* *Eye Irrit. 2 - H319* *Skin Irrit. 2 – H315* *Chr aq. toxicity –Category 4. H413*
1,8-Cineole +	*EINECS NO: 207-431-5* *CAS NO: 470-82-6;*	*0,1– 24,1*	*Flam. Liq. 3 - H226*
CAMPHOR	*EINECS NO: 200-945-0* *CAS NO: 76-22-2*	*До 3,5*	*Acute Tox. 4, H332* *STOT SE 2, H371*
BETA CARYOPHLLENE	*EINECS NO: 201-746-1* *CAS NO: 87-44-5*	*0,1 – 8,0*	*Asp. Tox. 1 – H304*
LINALOOL	*EINECS NO: 201-134-4* *CAS NO: 78-70-6*	*0,1 – 7,0*	*Acute Tox. Oral 5 (H303)* *Eye Irrit. 2A (H319)* *Flam. Liq. 4 (H227)* *Aquatic Acute 3 (H402)* *Skin Sens. 1B (H317)* *Skin Irrit. 2 (H315)*

P-CYMENE	*EINECS NO: 202-796-7* *CAS NO: 99-87-6*	*0,1 – 49,5*	*Asp. Tox. 1 - H304* *Flam. Liq. 3- H226* *Aquatic Chronic 2 - H411*
MYRCENE	*EINECS NO: 204-622-5* *CAS NO: 123-35-3*	*1,001- 5,0*	*Asp. Tox. 1 - H304* *Flam. Liq. 3- H226* *Skin Irrit. 2 - H315* *Eye Irrit. 2 - H319*

4. First Aid Measures

4.1. Description of first aid measures

- General notes : In case of sickness seek medical advice (if possible show the label).

- In case of inhalation : Immediately remove the exposed person away from the source of exposition to fresh air. If any discomfort persists seek medical advice.

- In case of skin contact : Immediately remove contaminated clothing and wash the skin with soap and water. If any discomfort persists seek medical advice.

- In case of eye contact : Immediately start rinsing the eyes with plenty of water for at least 15 min. Remove the contact lenses. Immediately seek medical advice. Continue rinsing.

- In case of ingestion : 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 without delay can cause irritation of eyes and cornea injury. The repeated contact can cause allergic dermatitis. Breading high concentration evaporations can cause anesthetic effects.

Effects : No additional data available

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

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

5. Fire-fighting Measures
5.1. Extinguishing media

Suitable extinguishing media	:	Use carbon dioxide (CO2), foam, alcohol-resistant foam, multifunctional ABC powder.
Unsuitable extinguishing media	:	Water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	:	In case of heating or fire toxic gases can be formed.
Specific hazards during fire-fighting	:	In case of fire, the extinguished material should be separated.

5.3. Advice for firefighters:

Special protective equipment for firefighters	:	Wear personal protective equipment, self-contained breathing apparatus, full protective clothing, appropriate for fighting chemical fires.
Additional data	:	Fight fire using the usual precautionary measures from an appropriate distance.

6. Accidental Release Measures
6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For personnel not responsible for emergencies

Personal precautionary measures, protective equipment and emergency procedures :		Wear protective clothing as described in SECTION 8 of this Material Safety Data Sheet. Handle the product using protective gloves resistant to the exposed chemicals. Avoid skin contact and breathing

vapours or fume. Maintain appropriate ventilation in the work area after spillage.

6.1.2. For the persons responsible for emergencies

Wear personal protective equipment. Move the people away from the spillage/leakage downwind.
For personal protection, see SECTION 8.

6.2. Environmental precautions

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

6.3. Methods and materials for containment and cleaning up

6.3.1. For containment	:	Cover with inert, inorganic, nonflammable absorbing material (e.g. dry lime, sand, soda, calcined soda). Place in closed containers, using tools that do not cause sparking and transport to an opened place. Avoid open flames or ignition sources.
6.3.2. For cleanup	:	Clean (as detergent - do not use solvents) and transfer to containers. Dispose of in accordance with applicable laws and regulations.
6.3.3. More information	:	Wear protective clothing as described in SECTION 8 of this Material Safety Data Sheet.

6.4. Reference to other sections

For personal protective equipment: see SECTION 8.

7. Handling and Storage
7.1. Precautions for safe handling

Precautions	:	Work in accordance with good manufacturing hygiene and safety practices. Avoid accidental contact with skin surfaces. Wear suitable protective clothing. Avoid inhalation. Keep away from food and drinks. Avoid skin and eye contact. Handle is accordance the rules of the good hygiene and safety practice. Provide adequate ventilation at the work area. Make sure that

		there is adequate ventilation especially in confined spaces.
Fire-fighting measures	:	Store away from ignition sources.
Measures to avoid transformation into aerosols and powder	:	Usually general or local ventilation is required for the exhaust gases, in order to comply with the restrictions concerning the exposition. The electrical equipment should be grounded and to comply with the applicable electric code.
Environmental precautions:		Follow the instructions for storing the product.
Advice on general occupational hygiene	:	Wash your hands before breaks and at the end of the working day. Avoid eye and skin contact.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	:	Store the product in original container, tightly closed in a dry, cool place away from ignition sources and protected from light.
Packing materials	:	Store in closed glass containers and metal containers, away from heat, light and ignition sources. Store in cool place.
Requirements to storage areas or containers	:	Use local and general ventilation of the premises at the recommended temperature and humidity.
Storage class	:	No data available
Recommendations for fire and explosion protection	:	None known.
Recommendations for primary storage	:	Store in a dark and cool place.
General rules are recommended in accordance	:	**ISO/TS 210:2015**.

7.3. Specific end use(s)

Recommendations	:	No data available.
Solutions specific to the industry sector	:	No data available.
Specific use(s)	:	For application in the area of perfumery and cosmetics, independently or as a recipe component, a part of composition.

8. Exposure Controls/Personal Protection Equipment

8.1. Control parameters

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

Other occupational exposure limits

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

- **Values for human health**

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

PREDICTED NO EFFECT CONCENTRATION (PNEC):
LINALOOL(CAS:78-70-6)

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

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

ENVIRONMENTAL COMPARTMENT:	*SEA WATER.*

PNEC:	*0.02MG/L*
ENVIRONMENTAL COMPARTMENT:	*INTERMITTENT WASTE WATER.*
PNEC:	*2MG/L*
ENVIRONMENTAL COMPARTMENT:	*FRESH WATER SEDIMENT.*
PNEC:	*2.22MG/KG*
ENVIRONMENTAL COMPARTMENT:	*MARINE SEDIMENT.*
PNEC:	*0.222MG/KG*
ENVIRONMENTAL COMPARTMENT:	*WASTE WATER TREATMENTPLANT.*
PNEC:	*10MG/L*

8.2. Exposure controls

8.2.1. Appropriate engineering control

Measures related to the substance/mixture to prevent exposure during identified uses : The description of the appropriate exposition control measures refers to the specified in subsection 1.2 identified uses of the substance or the mixture.
This information is sufficient to make it possible for the employer, when appropriate, to assess the risk caused by the presence of the substance or the mixture for the health and safety of employees according articles 4—6 of Directive 98/24/EC and articles 3—5 of Directive 2004/37/EC.
This information supplements the information presented in SECTION 7.
Provide adequate ventilation. Good practices of personal hygiene are always recommended especially when handling chemicals / oils.

8.2.2. Personal protective equipment:

8.2.2.1. Eyes and face protection: Wear approved safety goggles in accordance with standard EN166.

8.2.2.2. Skin protection

Hand protection : Use appropriate protective gloves according standard EN374, to avoid skin contact. Type of

		recommended gloves: nitrile rubber (butadiene – acrylonitrile copolymer rubber (NBR)) or PVA (polyvinyl alcohol).
Other skin protection:		Wear suitable clothing to prevent any skin contact. 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. Respiratory tract protection	:	Use respiratory equipment for high concentrations.
8.2.2.4. Thermal hazards	:	There aren't such.
8.2.3. Environmental exposure controls	:	Avoid disposal in drainage waters. To be eliminated by authorized companies only.
Measures related to substance/ mixture required to avoid exposition	:	No data available.
Training measures related to the avoiding of exposition	:	Training of the staff is organized according to a company schedule.
Organization measures to avoid exposition	:	Training of staff
Technical measures to avoid exposition	:	Training of staff

Environmental exposure controls

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

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	:	easy flowing liquid
Color	:	pale yellow to orange yellow
Odor	:	strong, thyme with a slight citric note

Odor threshold	:	No data from our supplier on this matter
pH	:	No data available
Content of thymol, in %	:	> 80%
Content of phenols, in %	:	10 to 74,0%
Melting point/ freezing point	:	No data available
Boiling point	:	No data available
Boiling point/ boiling range	:	No data available
Flash point, in °C	:	56.0°C
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
Solubility	:	Soluble in alcohol and oils
Insoluble in	:	water
Partition coefficient n-octanol/water Log/Pow	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Explosivity	:	No data available
Oxidizing properties	:	No data available

Other information

Refractive index at 20°C	:	1.490 – 1.510
Relative density at 20°C	:	0.915 – 0.940
Optical rotation at °	:	-3.0 - +1.0

No other information available.

10. Stability and Reactivity

10.1. Reactivity

Advice	:	Stable under the recommended storage conditions.

10.2. Chemical stability

Advice	:	Stable under the recommended storage conditions.

10.3. Possible hazardous reactions

Hazardous reactions	:	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	:	Avoid exposing to heat, flames and other ignition sources. Do not store near to heat, sparks, open flame.
Thermal decomposition	:	Thermal decomposition may release / form carbon oxide (CO) and carbon dioxide (CO2).

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Hazardous decomposition products	:	No additional data available.

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

THYMOL (CAS: 89-83-8)
Oral, LD50: 980 mg/kg (rat)

CARVACROL (CAS:499-75-2)
Oral, LD50: 810 mg/kg (rat)

beta-Caryophyllene (CAS:87-44-5)
Oral, NOAEL: 700 mg/kg (rat) (90 days Schmitt 2016)
delta-3-Carene (CAS;13466-78-9)
Oral, LD50: 4800 mg/kg (rat) (Moreno 1975)

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)

GERANIOL (CAS: 106-24-1)
LD50 (Rat) = 3,600 mg/kg

Citral (CAS:5392-40-5)
LD50 Oral - Rat - male and female – 4,960 mg/kg(Citral)

Corrosion/Skin irritation

D-LIMONENE(CAS:5989-27-5)
ORAL ROUTE: LD50= > 5000MG/KG
SPECIES : Rabbit
D-LIMONENE(CAS:5989-27-5)
ORAL ROUTE: LD50= > 5,600 - 6000MG/KG
SPECIES : Mouse

LINALOOL(CAS:78-70-6)
DERMAL ROUTE :LD50=5610MG/KG
SPECIES: RABBIT
OECDGUIDELINE 402(ACUTE DERMAL TOXICITY)

LINALOOL(CAS:78-70-6)
IRRITATION: AVERAGE SCORE =1.85
EFFECT OBSERVED : ERYTHEMA SCORE
SPECIES : RABBIT
DURATION OF EXPOSURE : 24HOECDGUIDELINE 404(ACUTE DERMAL IRRITATION /CORROSION)

GERANIOL (CAS: 106-24-1)
LD50 (Rabbit) = > 5,000 mg/kg

Citral (CAS:5392-40-5)
LD50 Dermal - Rat - male and female - > 2,000 mg/kg(Citral)

Notes : Irritatant to skin and mucous membranes.

Serious damage/eye irritation

Result : Causes serious eye irritation.

LINALOOL(CAS:78-70-6)
***CORNEAL HAZE**: AVERAGE SCORE =1*
SPECIES : RABBIT
DURATION OF EXPOSURE : 24HOECDGUIDELINE 405 (ACUTE EYE IRRITATION /CORROSION)

***IRITIS:** AVERAGE SCORE =0.6*
SPECIES : RABBIT
DURATION OF EXPOSURE : 24HOECDGUIDELINE 405(ACUTE EYE IRRITATION /CORROSION)

CONJUNCTIVAL REDNESS: AVERAGE SCORE =2.3
SPECIES : RABBIT
DURATION OF EXPOSURE : 24HOECDGUIDELINE 405(ACUTE EYE IRRITATION /CORROSION

Respiratory or skin sensitization

Result : May cause allergic reaction if skin contact.

Ingestion

Note : No data available.

Mutagenicity of germ cells

Note : No data available.

Carcinogenicity

Note : CAS 5989-27-5: IARC Group 3: The agent cannot be classified as being carcinogenic 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

Citral (CAS:5392-40-5)
Rat - female - Oral - Lowest observed adverse effect level - 335 mg/kg(Citral)
Rat - male - Oral - Lowest observed adverse effect level - 345 mg/kg(Citral)

Aspiration hazard

Note : No data available.

Information on possible routes of exposure

Note : No data available

Symptoms related to physical, chemical and toxicological characteristics		
Note	:	Toxicological characteristics are not comprehensively studied

Delayed and immediate effects as well as chronic effects from short and long-term exposure		
Note	:	Toxicological characteristics are not comprehensively studied

Interactions		
Note	:	Toxicological characteristics are not comprehensively studied

Lack of specific data		
Note	:	Toxicological characteristics are not comprehensively studied

Mixtures		
Note	:	Toxicological characteristics are not comprehensively studied

Medical consideration		
Note	:	The persons having rash are directed to dermal specialist to be examined for allergic eczema.

Other information		
Note	:	No data available

12. Ecological information

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

12.1. Toxicity

Product:

Acute (short-term) toxicity:

Fish

LINALOOL(CAS:78-70-6)
FISH TOXICITY: DURATION OF EXPOSURE :96H
LC50=27.8MG/L
SPECIES :ONCORHYNCHUS MYKISS
OECDGUIDELINE 203(FISH,ACUTE TOXICITY TEST)

GERANIOL (CAS: 106-24-1)
LC50(96 h, Danio rerio (zebra fish)) = 14 mg/l

Citral (CAS:5392-40-5)
static test LC50 - Leuciscus idus (Golden orfe) - 6.78 mg/l - 96 h(Citral) (DIN 38412)
99-87-6 p-cymene
LD50: 1,63 mg/l (fish) (OECD 203)

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)

GERANIOL (CAS: 106-24-1)
EC50(48 h, Daphnia magna (Water flea)) = 7.75 mg/l (OECD Test Guideline 202)

Citral (CAS:5392-40-5)
static test EC50 - Daphnia magna (Water flea) - 6.8 mg/l - 48 h(Citral)

123-35-3 Myrcene

LD50: 0,51 mg/l (fish) (OECD 203)
CE50/48h: 0,65 mg/l (daphnia)

Algae/aquatic plants

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

GERANIOL (CAS: 106-24-1)
ErC50(72 h, Scenedesmus capricornutum (fresh water algae)) = 3.32 mg/l (OECD Test Guideline 201)

Citral (CAS:5392-40-5)
static test EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - 103.8 mg/l - 72 h(Citral)

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

Note : No data available

12.2. Persistence and degradability

Product:

Abiotic degradation

Note : No data available

Physical and photo-chemical elimination

Note : No data available

Biochemical degradation

Note : No data available

12.3. Bioaccumulation

Product:

Partition coefficient n-octanol/water (log Kow)

Note : No data available

Bioconcentration factor (BCF)

Notes : Does not accumulate in biological environment

12.4. Mobility in soil

Product:

Known or predicted distribution in environmental components

Note : No data available

Surface tension

Note : No data available

Adsorption/desorption

Note : No data available

12.5. Results of PBT and vPvB assessment

This product does not contain substances considered highly persistent or highly bioaccumulative vPvB.

This product does not contain substances considered persistent or bioaccumulative, or toxic PBT.

Product:		
Results of PBT and vPvB assessment		
Notes	:	No data available

12.6. Other adverse effects

Product:		
Biochemical oxygen demand (BOD)		
Value	:	No data available

Chemical oxygen demand (COD)		
Value	:	No data available

Additional ecological information/Mobility in soil		
Notes	:	No data available

12.7. Additional information

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

13. Disposal of Waste
13.1. Waste treatment methods
13.1.1. Disposal of product/packing

Codes/designation of waste according to LoW: -

Product	:	Do not re-use the empty containers.
Contaminated packaging material	:	No data available.

European Waste Catalogue Number	:	No waste code can be given for this product according to the European Waste Catalogue since it is related to its potential use. Waste code is given after consultation with the regional waste service.
13.1.2. Information on waste treatment	:	Dispose of in accordance with all local and national regulations.
13.1.3. Information on discharge in sewer systems	:	Avoid disposal of product in streams, sewers or other water routes.
13.1.4. Other recommendations on waste disposal	:	No data available.

14. Transport Information

Class 3

14.1. UN number

1169 LIQUID FLAVORING EXTRACTS

14.2. UN proper shipping name

UN1169

14.3. Transport hazard class(es)

UN1169

14.4. Packing group

III

14.5. Environmental hazards

14.6. Special precautions for user

Not applicable

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

Transport Icon : **Class: 3 Flammable liquids**

Road transport

ADR	Class: 3 Flammable liquid
RID	Class: 3 Flammable liquid

Waterway transport

ADN	Class: 3 Flammable liquid

Maritime transport

IMDG	Class: 3 Flammable liquid

Air transport

IATA/CAO	Class: 3 Flammable liquid

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.

Permits or restrictions for use : No data available.

Permits : Not required

Restrictions : No data available.

Other EU legislative acts : According to the effective Regulations

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

Restrictions for use in working environment : No data available.

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

15.2. Chemical Safety Assessment

No data available.
The supplier had not prepared a chemical safety assessment for this substance/mixture.

16. Other information

Shelf life : 3 years from the date of production.

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

Abbr.	Description of used abbreviations
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)
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)
DMEL	Derived Minimal Effect Level

DNEL	Derived No-Effect Level
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" ", developed by the United Nations
IMDG	International Maritime Dangerous Goods Code
IOELV	Indicative occupational exposure limit value
MARPOL	International Convention on Prevention of Pollution from Ships (abbr. to "Marine Pollutant)
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted No-Effect Concentration
ppm	parts per million
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)
vPvB	very Persistent and very Bioaccumulative

Acute toxicity (Acute Tox. 4)
Flammable liquids (Flam. Liq. 3)
Skin irritation Corrosion/irritation 2
Skin sensitization (Skin sens 1)
Serious eye damage/eye irritation (Eye Dam, 1)
Hazardous for aquatic life Aquatic Chronic 2

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 vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause allergic skin reaction
H318	Causes serious eye damage.
H411	Toxic for aquatic life with long-lasting effect
EUH208	Contains Citral, Geraniol, Linalool, Limonene. May cause allergic reaction.
	List of instructions for safe treatment, used in the safety document
P102	Keep away from children
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241	Use explosion-proof electric/ventilating/lighting equipment.
P242	Use non-sparking tools.
P273	Avoid releasing in environment

P280	Use protective gloves/protective clothing/protective goggles/facial mask.
P333 + P313	In case of skin irritation or rash: seek medical advice/help.
P305 + P351 + P338	IF CONTACT WITH EYES: Rinse thoroughly with water for several minutes. Remove the contact lenses if there are such and if possible. Continue rinsing.
P501	Dispose the contents / container at location authorized according 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.

E N D!

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

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

Name of product: Organic Thyme Oil (Thymus Vulgaris Flower/Leaf 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	*0,01 – 0,5*	-	*0,01 – 0,5*
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	*0,01 – 0,5*	-	*0,01 – 0,5*
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	*0,1 – 1,0*	-	*0,1 – 1,0*
22	LINALOOL	H315	78-70-6	201-134-4	*0,1 – 7,0*	-	*0,1 – 7,0*
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 ЕО 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