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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) 2020/878

Organic Basil Oil

Version: 1.0: first edition Date of creation: 14.04.2022 Date of printing: 15.04.2022

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

1.1. Product Identifiers

Trade name	:	Organic Basil Oil
Substance name (INCI)	:	OCIMUM BASILICUM OIL
Botanical name	:	Ocimum basilicum (L.) (METHYL CHAVICOL TYPE)
CAS №	:	84775-71-3 / 8015-73-4
EO №	:	283-900-8 / -
Biological origin	:	Obtained by distillation from the flowering aerial part of the plant (Herba Basillici) and is in labiate-type glands.

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

Use of substance/mixture	:	Used in food industry, medicine, pharmacy, 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 serious irritation.

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 to GHS				
Chapter	**Subsection**	**Class of hazard**	**Class of hazard and category of hazard**	**Hazard statements**
3.1	Oral	Acute toxicity	(Acute Tox. 4)	H302
3.2	Skin	Skin irritation	Corrosion/irritation 2	H315
3.4	Sens.	Sensitization - skin	(Skin sens 1)	H317
3.3	Eye	Eye irritation	(Corrosion)Damage/ Irritation. 2A	H319
3.5	Germ.cell	Suspected of causing genetic defects	Muta. 2	H341
3.6	Carc	Suspected of causing cancer	Carc.2	H351
4.1	Chronic	Harmful to aquatic life	Aquatic Chronic 3	H412

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

GHS08 GHS07 GHS09

Signal word : Hazardous

Hazard statements : H302 Harmful if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H341 Suspected of causing genetic defects
H351 Suspected of causing cancer
H412 Harmful to aquatic life with long lasting effects.
EUH 208 Contains Eugenol, Linalool, Limonene, Citral. May cause an allergic reaction.

Safety recommendations

Safety recommendations			
		P102	Keep out of reach of children
Safety recommendations prevention	:	P201	Obtain special instructions before use
		P261	Avoid breathing vapours
		P264	Wash hands thoroughly after handling.
		P272	Contaminated work clothing should not be allowed out of the workplace.
		P363	Wash contaminated clothing before reuse
		P273	Avoid release to the environment.
		P280	Wear protective gloves/protective clothing/eye protection/face protection.
		P284	[In case of inadequate ventilation] wear respiratory protection.
Safety recommendations			
- As a reaction	:	P305+P351+ P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P301+P310	IF SWALLOWED: Immediately call a doctor
		P330	Rinse mouth
		P302 + P352	IF ON SKIN: Wash with plenty of water/…
		P308 + P313	IF exposed or concerned: Get medical advice/attention.
		P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
		P391	Collect spillage.
Safety recommendations			
If stored		P403+P235	Store in a well-ventilated place. Keep cool.
		P405	Store locked up
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 vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII.

3. Composition/information on ingredients

3.1. Substance

INGRIDIENT	IDENTIFIERS	%	CLASSIFICATION
OCIMUM BASILICUM OIL	*EINECS NO: 283-900-8 / -* *CAS NO: 84775-71-3 / 8015-73-4*	*100,0*	 *DANGER* *Acute Tox Oral 4.; H302* *Skin Irrit. Cat.2, H315* *Skin Sens. Cat.1, H317* *Eye .irrit, Cat. 2A; H319* *Muta.2-Carc. 2-H341; H351* *Aquatic Chronic 3;H412*
Allylanisole	*EINECS NO: 205-427-8* *CAS NO: 140-67-0*	*50,0 – 80,0*	*Acute Tox. 4-H302* *Skin Irrit.2-H315* *Skin Sens. 1B-H317* *Muta.2-Carc. 2-H341; H351* *Aquatic Chronic 3;H412*
Camphor	*EINECS NO: 200-945-0* *CAS NO: 76-22-2*	*0,15 -12,5*	*Acute Tox. 4, H332* *STOT SE 2, H371*
Eucalyptol (1,8cineol)	*EINECS NO: 207-431-5* *CAS NO: 470-82-6*	*< 0,5*	*Flam. Liq. 3 - H226* *Eye Irrit. 2 - H319* *Acute Tox.Oral 4 – H302* *Skin Irrit. 2 – H315*
BETA-CARYOPHYLLENE/ (−)-trans-Caryophyllene	*EINECS NO: 202-795-1* *CAS NO: 99-86-5*	*< 2,5*	*Not classified as hazardous according to the EC Regulation 1272/2008/EC*
LINALOOL	*EINECS NO: 201-134-4* *CAS NO: 78-70-6*	*5,0 – 20,0*	*Eye Irrit. 2A (H319)* *Skin Sens. 1B (H317)* *Skin Irrit. 2 (H315)*
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*
EUGENOL	*EINECS NO: 202-589-1* *CAS NO: 97-53-0*	*0.1-<1,0*	*Flam. Liq. 3 – H226* *Eye Irrit. 2 - H319* *Aquatic Chronic 4 – H413* *Acute Tox. 4, H302* *Skin Irrit. 2 – H315* *Skin Sens. 1 – H317*
CITRAL	*EINECS NO: 226-394-6* *CAS NO: 5392-40-5*	*0.1-≤1,0*	*Skin Irrit. 2 – H315* *Skin Sens. 1 – H317*

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).
Following inhalation	:	If breathing is difficult, move the person to fresh air. If symptoms persist, seek medical attention.
Following skin contact	:	Wash skin with plenty of soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation occurs.
Following eye contact	:	Immediately rinse with plenty of water, also under the eyelids for at least 15 minutes. If symptoms (irritation, burning) persist, seek medical attention.
Following ingestion	:	Not expected route of exposure. Rinse mouth with water and do not induce vomiting unless directed by medical personnel. Get immediate medical attention if you feel unwell and show the label of the substance to medical personnel.

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

Note	:	For details on health effects and symptoms, see section 11.

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

Treatment	:	Contact a poison control specialist immediately if large amounts are swallowed or inhaled.

5. Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media	:	Use CO_2, dry powder, fire extinguisher or foam
Unsuitable extinguishing media	:	Strong water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire-fighting	:	Avoid breathing fumes and smoke, generated by fire. Combustion will produce heavy smoke, soot, carbon monoxide as well as unidentified organic compounds.

5.3. Advice for firefighters

Special protective equipment for firefighters	:	Do not try to extinguish the fire with water, which feeds rather than smothers the flames. Essential oils have the ability to float on water and this causes the fire to spread faster. Small fires can be smothered by covering with dirt, sand or a blanket. Avoid breathing vapors and fumes formed in case of fire. In case of insufficient ventilation, wear suitable respiratory equipment and protective clothing.
additional information:		Use normal firefighting equipment. Wear self-contained breathing apparatus for firefighting if necessary. Use a water jet to cool unopened containers.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For personnel not responsible for emergencies

Stop the leak if you can do so without risk.
Avoid contact with skin, eyes and clothing.
There is a risk of slipping caused by the leaked product.
Ventilate the spill area well. Avoid all flammable sources. Ventilate the premises. No smoking. Use personal protective equipment during work. Follow instructions in Sections 7 and 8. Do not inhale aerosols.
For the firefighters:
Should be equipped with appropriate personal protective equipment (see Section 8).
High temperature may increase the pressure in the container - cool the container by spraying water. Avoid inhaling the released vapors.

6.1.2. For the persons responsible for emergencies

Personal precautions	:	Clarify the chemical resistance.

Maintain good professional and personal hygiene. Avoid inhalation of product vapors and contact with skin and eyes.

6.2. Environmental precautions

Environmental Precautions : Avoid contamination of sewers, surface and ground water. Throw away rags, sponges, etc. ... used for cleaning according to applicable regulations.

6.3. Methods and materials for containment and cleaning up

6.3.1. For containment : Eliminate all sources of ignition. Clean the affected area. Prevent the liquid from spreading.
Contain spilled liquid with absorbent material (e.g. sand, diatomite or inert dust) and remove to a disposal container.

6.3.2. For cleanup :

Pump larger quantities. Swab up spills with non-combustible materials (such as detergent - do not use solvents) and transfer to containers.
Collect in tightly closed containers and dispose of according to the instructions in Section 13. After removing the product, wash the contaminated area with plenty of water.

6.4. Reference to other sections
See Section 8 and 13.

7. Handling and Storage
7.1. Precautions for safe handling

Precautions : Evacuate personnel to protected areas. Ventilate the warehouse/laboratory for storage and preparation. Avoid eating, drinking and smoking in areas where products are stored and processed. Handle with caution to avoid projection, especially in eyes and mucous membranes. Do not expose the vapors to a flame or other source of ignition. Do not inhale warm fumes. Beware of vapors and mist that build up near explosive concentrations. Vapours may accumulate in low areas.
Work in accordance with the rules of occupational hygiene and safety techniques. Avoid unintentional contact with skin surfaces, do not inhale vapors, do not

		swallow. Prevent access of persons not required and not wearing protective clothing. Do not touch or walk through the product. Wear appropriate respiratory protection if ventilation is inadequate. Follow the hygiene regulations. Always wash hands after work. Remove and wash contaminated clothing before reuse. Make sure there is adequate ventilation, especially in enclosed spaces.
Fire-fighting measures	:	Keep away from sources of ignition. No smoking.
Measures to avoid transformation into aerosols and powder	:	Provide good ventilation or exhaust in the workplace.
Hygienic measures	:	Wash hands before breaks and at the end of the workday. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	:	Store in a well-ventilated place. Keep container tightly closed. It is recommended that the product be stored in an airtight container or in barrels or other containers with an internal varnish coating, non-reactive with the oil at a temperature of 15-25˚C without direct sunlight and without heat sources.
Incompatible materials	:	No information available
Packing materials	:	Always store in packaging that allows preserving the integrity and quality of the product.
Storage class	:	German reactive glass vessels (TRGS 510): 10: Flammable liquids
Additional information on storage conditions	:	No information .
Recommendations for fire and explosion protection	:	Keep away from sources of ignition and open flame.
Recommendations for primary storage	:	Apply good occupational practices and occupational

hygiene practices by ensuring proper ventilation in the workplace. Observe good personal hygiene and do not eat, drink or smoke at work.

It is recommended to observe the packaging and storage conditions according to ISO/TS 210:2015.

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 food industry, medicine, pharmacy, perfumery and cosmetics by itself, or as a formulation constituent, a part of composition.
Additional information	:	Follow the regulation relative to the application: • The Therapeutic Products Act, if they are advertised as medicines or medical products (Medicinal effects; Health effects). • The Food Law and its regulations if they are advertised as a food supplement. • 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). • The Animal feed regulation if it is advertised as an animal feed additive. • The Biocidal products regulation if, for example, they are advertised as insect repellents. • In all other cases, they are subject to the Chemicals regulation.

8. Exposure controls/Personal protection equipment

8.1. Control parameters

(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.

Pinene Limit value -8 hours 113 mg/m³ -

Other occupational exposure limit values

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

EUGENOL, NAT - CAS: 97-53-0
INDUSTRY OF THE WORKER: 21.2 MG / M³ - CONSUMER: 5.22 MG / M³ - EXPOSURE: HUMAN INHALATION - FREQUENCY: LONG
TERM, SYSTEMIC EFFECTS

INDUSTRY OF WORKERS: 6 MG / KG - CONSUMER: 3 MG / KG - EXPOSURE: DERMAL TO THE SKIN - FREQUENCY: LONG TERM, SYSTEMIC EFFECTS
CONSUMER: 3 MG / KG - EXPOSURE: HUMAN ORAL - FREQUENCY: LONG-TERM, SYSTEMIC EFFECTS
EUGENOL, NAT - CAS: 97-53-0
INDUSTRY OF THE WORKER: 21.2 MG / M³ - CONSUMER: 5.22 MG / M³ - EXPOSURE: HUMAN INHALATION - FREQUENCY: LONG
TERM, SYSTEMIC EFFECTS

INDUSTRY OF WORKERS: 6 MG / KG - CONSUMER: 3 MG / KG - EXPOSURE: DERMAL TO THE SKIN - FREQUENCY: LONG TERM, SYSTEMIC EFFECTS
CONSUMER: 3 MG / KG - EXPOSURE: HUMAN ORAL - FREQUENCY: LONG-TERM, SYSTEMIC EFFECTS

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*

EXPOSURE LIMIT VALUES OF PNEC
EUGENOL, NAT - CAS: 97-53-0
TARGET: FRESH WATER - VALUE: 1,13 03
TARGET: SEA WATER - VALUE: 0.113 03
TARGET: FRESHWATER SEDIMENTS - VALUE: 0,081 MG / KG
TARGET: SEDIMENTS FOR SEA WATER - VALUE: 0,081 MG / KG
TARGET: SOIL (AGRICULTURAL) - VALUE: 0,0155 MG / KG
TARGET: EMISSIONE SALTUARIA - VALUE: 11.3 03

EUGENOL, NAT - CAS: 97-53-0
TARGET: FRESH WATER - VALUE: 1,13 03
TARGET: SEA WATER - VALUE: 0.113 03
TARGET: FRESHWATER SEDIMENTS - VALUE: 0,081 MG / KG
TARGET: SEDIMENTS FOR SEA WATER - VALUE: 0,081 MG / KG
TARGET: SOIL (AGRICULTURAL) - VALUE: 0,0155 MG / KG
TARGET: EMISSIONE SALTUARIA - VALUE: 11.3 03

8.2. Exposition controls

8.2.1. Appropriate engineering control

Measures related to the substance/ mixture to prevent exposure during identified uses: The description of appropriate exposure control measures refers to the identified use(s) of the substance or mixture specified in subsection 1.2.
General room ventilation or local exhaust ventilation is usually required to comply with the exposure limit(s).

8.2.2. Personal protective equipment:

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 launder contaminated clothing before reuse.

8.2.2.1.Eyes and face protection : Face mask and safety goggles. Avoid contact with eyes.

Use eye protection (safety goggles in accordance with the EN166 standard) designed to protect against liquid splashes.

8.2.2.2.Skin protection

Hand protection :

Work with gloves. Inspect gloves before use. Use proper glove removal technique (without touching the skin with this product). Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practice. Wash and dry your hands. The selected protective gloves must meet the requirements of Regulation (EC) 2016/425, as well as the EN 374 standard that derives from it.
Full contact
Material: Nitrile rubber
Minimum layer thickness 0.4 mm
Durability period: 480 min
Product testing: Camatril® (KCL 730 / Aldrich Z677442, size M)
Contact with splashes of the substance.
Material: Nitrile rubber
Minimum layer thickness 0.11 mm
Durability period: 60 min
Product testing: Dermatril® (KCL 740 / Aldrich Z677272, size M).
data source: KCL GmbH, D-36124 Eichenzell, Phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
For use in solution or mixture with other substances, as well as under conditions other than those in EN 374, contact the supplier of the EU-approved gloves.
This recommendation is advisory and should be evaluated by an industrial hygienist and safety officer familiar with the specific use of the product. It should not be construed as a proposal for approval of any specific usage scenario.

Body protection : Full chemical protection suit. Protective equipment should be selected according to the concentration and quantity of the hazardous substance at the specific workplace.

8.2.2.3.Respiratory tract

protection	:	In case of insufficient ventilation, use suitable means of respiratory protection. When vapors / aerosols type A2 are generated
8.2.2.4. Thermal hazards	:	No data available.
8.2.2.5. Other protection	:	Non-slip safety shoes may be worn in case of spills.
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	:	Do not flush into surface water or sewage system. Dispose of only by an authorized company.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of aggregation/type	:	easy-to-move oily liquid
Colour	:	Pale yellow to amber
Odour	:	Sweet, dimly anise-like, smoky smell, slightly camphorous
Odor threshold	:	No current information
Melting point / freezing point	:	-60.0°C~-59.7°C /ECHA dossier/
Boiling point or initial boiling point and boiling range	:	215 °C in 760 mmHg /external source /
Flammability	:	No information
Explosivity	:	No information
Lower and upper explosivity limit	:	No information

Ignition temperature	:	ca. 80 °C /ECHA dossier/
Boiling point	:	~ 216 °C /ECHA dossier/
Auto-ignition temperature	:	454 °C /ECHA dossier/
Decomposition temperature	:	No information
pH	:	6,8 /ECHA dossier/
Solubility	:	insoluble in (water) 0.124 g/l (20°C, pH 6.8) /ECHA dossier/
Solubility	:	in alcohol and oils
Miscibility with ethanol, 80 %	:	1:7 (ISO 11043:1998)
Partition coefficient n-octanol/water for estragole (logarithmic value)	:	3,4 /ECHA dossier/
Vapour pressure	:	8.2 kPa /ECHA dossier/
Relative vapor density	:	No information
Particle characteristics	:	Not applicable

9.2. Other information

Refraction index at n^{20}/d	:	1.480 - 1.568
Relative density at d^{20}	:	0.890 - 0.965
Optical rotation in ° (20C)	:	-14.0 up to -5.0

No other information available.

9.2.1. Information related to physical hazard classes

Note : No information

10. Stability and Reactivity

10.1. Reactivity

Note	:	It does not present a significant reactivity hazard alone or in contact with water. Stable under recommended storage conditions.

10.2. Chemical stability

Note	:	Stable under recommended storage conditions

10.3. Possible hazardous reactions

Hazardous reactions	:	Not expected under normal conditions of use

10.4. Conditions to avoid

Conditions to avoid	:	Extreme temperatures and direct sunlight.
Thermal decomposition	:	The product does not decompose under normal conditions.

10.5. Incompatible materials

Materials to avoid	:	Concentrated acids, alkalis and oxidizing agents. Avoid flammable materials, PVC.

10.6. Hazardous decomposition products

Hazardous decomposition products	:	Thermal decomposition can release/form carbon monoxide (CO) as well as unidentified organic compounds.

11. Toxicological Information

Main information: The information given in this section does not belong to the product itself, but derives from the ecotoxicity data of its ingredients

11.1. Information on toxicological effects

Acute toxicity

Basil oil, methyl chavicol type
LD50 Oral - Rat- 1.400 mg/kg

4-allylanisole 140-67-0
LD50 of the tested element Estragole is higher than 300 mg/kg body weight and lower than 2000 mg/kg body weight after a single peroral dose in rats Wistar
Source ECHA dossier

1,8-Cineol (Eucalyptol)
2.480 mg/kg (rat)

Camphor (Bornan-2-on)
1.310 mg/kg (mouse)

EUGENOL (CAS: 97-53-0)
Oral : LD50 = 2300 mg/kg

LINALOOL(CAS:78-70-6)
ORAL ROUTE: LD50=2200MG/KG
SPECIES: MOUSE
OECDGUIDELINE 401(ACUTE ORAL TOXICITY)

D-LIMONENE(CAS:5989-27-5)
ORAL ROUTE: LD50= 4,400 - 5,10MG/KG
SPECIES : Rat

CITRAL 5392-40-5
LD50 Oral - Rat- male and female- 6.800 mg/kg
Inhalation: No information available
LD50 Skin - Rat- male and female- > 2.000 mg/kg

Corrosion/Skin irritation

Basil oil, methyl chavicol type
LD50 Skin - Rabbit- > 5.000 mg/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, 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)

EUGENOL 97-53-0
LD50Oral -Rat-male-> 2.000 mg/kg (OECD Test guidelines 423) LD50 Inhalation-Rat-male-4 h-> 2,6 mg/l (OECD Test guidelines 403)

Notes : Causes skin irritation.
Classified on the basis of the rules of the CLP regulation for the classification of mixtures, but not corrosive based on an in vitro skin corrosion test (OECD 431, GLP, rel.1, S).- ECHA

Serious damage/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

Eugenol 97-53-0
Eyes-Rabbit Result: Irritates eyes. (OECD Test guidelines 405)

CITRAL 5392-40-5
Serious eye damage/Eye irritation
Eyes - Rabbit
Result: Causes serious eye irritation. (OECD Test guidelines 405)

Result : Serious eye damage.
May have irreversible effects on the eyes, such as damage of eye tissues or serious physical vision deterioration that is not fully reversible by the end of the 21-day observation. Serious eye damage is characterized by corneal destruction, permanent corneal opacity and iritis.

Notes : Causes serious eye irritation.
A quick rinse and removal of the substance will avoid damage.

Respiratory or skin sensitization

CITRAL 5392-40-5
Maximization test - Guinea pig
Result: positive
(OECD Test guidelines 406)
Notes: Classified according to Regulation (EU) 1272/2008, Anex VI (Table 3.1/3.2)
Eugenol 97-53-0
Local lymph node assay (LLNA)-Mouse Result: positive (OECD Test guidelines429)

Note : May cause an allergic skin reaction. Inhalation of high vapor concentrations may cause an anesthetic effect. Skin Sensitization: Skin sensitizer based on the presence of classified ingredients.

Ingestion

Note : no data

Mutagenicity of germ cells

Rat (eugenol), Liver, DNA damage

Mouse (eugenol), lymphocytes

Mutation in mammalian somatic cells.
Hamster (eugenol) embryo

DNA synthesis
Hamster (eugenol) embryo

Morphological transformations.
Hamster (eugenol) embryo

Carcinogenicity

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

IARC: 3-Group3 : Not classifiable as to its carcinogenicity to humans (Eugenol)

Allylanisole Suspected of causing genetic defects.

Summary of the assessment of CMR properties		
Allylanisole		Suspected of causing cancer.
STOT (specific target organ toxicity) — single exposure		
Note	:	No data
STOT (specific target organ toxicity) — repeated exposure		
Note	:	No data
Aspiration hazard		
Note	:	Breathing high vapor concentrations may cause anesthetic effects.
Information on possible routes of exposure		
Note	:	Contact with the skin, scalp
Symptoms related to physical, chemical and toxicological characteristics		
Note	:	No information except the one provided.
Delayed and immediate effects as well as chronic effects from short and long-term exposure		
Note	:	Eye irritation upon exposure. Redness of the skin at irritation.
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 : Low risk of skin sensitization due to the methyl chavicol (estragole) content. The oil is contraindicated in pregnancy and for inhalation in case of emphysema and allergies. Dilute before use. A sensitive skin test should be done before use.

Other information

CITRAL 5392-40-5
Repeated dose toxicity - Rat - female - Oral - The level of harmful effects has not been sufficiently studied - 335 mg/kg

CITRAL 5392-40-5
Cough, Shortness of breath, Headache, Nausea, Vomiting

CITRAL 5392-40-5
Systemic reactions: When absorbed: Drowsiness

Note : Despite our best knowledge, the chemical, physical and toxicological properties have not been studied in depth.

11.2. Properties disturbing the functions of the endocrine system

Note : No information available

12. Ecological information

Note : Do not allow to enter drains, water or soil.

12.1. Toxicity
Main information: The information given in this section does not belong to the product itself, but derives from the ecotoxicity data of its ingredients
According to Regulation (EC) No. 1272/2008
Product:

Acute (short-term) toxicity:

Fish

CITRAL 5392-40-5
Toxic for fish static test LC50 - Leuciscus idus (Fish) - 6,78 mg/l - 96h(DIN 38412)

LINALOOL(CAS:78-70-6)

Fish toxicity: duration of exposure :96h
Lc50=27.8mg/l
Species :oncorhynchus mykiss
Oecdguideline 203(fish,acute toxicity test)
EUGENOL(CAS: 97-53-0)
LC50-Daniorerio(zebrafish)-13mg/l-96h(Eugenol).
(OECDTestGuideline203)

Toxic for Daphnia and other aquatic invertebrates

CITRAL 5392-40-5
static test EC50 - Daphnia magna (Daphnia) - 6,8 mg/l - 48 h Notes: (ECHA)

LINALOOL(CAS:78-70-6)
Crustacean Toxicity Duration Of Exposure :48h
Ec50=59mg/L
Species :Daphnia Magna
Oecdguideline 202(Daphnia Sp.Acute)

EUGENOL(CAS: 97-53-0)
ec50-daphnia(waterflea)-1.13mg/l-48h(eugenol)

Algae/aquatic plants

CITRAL 5392-40-5
static test EC50 - Desmodesmus subspicatus (green algae) - 103,8 mg/l - 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

CITRAL 5392-40-5
EC50 - Pseudomonas putida (A rod-shaped gram-negative bacterium) - 2.100 mg/l - 30 min
Notes: (External Material Safety Data Sheet)

Chronic (long-term) toxicity:

Note : No data

Fish

Note : No data

Shellfish

Note : No data

Algae/aquatic plants

Note : No data

Other organisms

Note : No data

12.2. Persistence and degradability

Product:

Abiotic degradation

Mixture components degradation

DL-α-pinene 80-56-8
oxygen depletion 68 % - 28 d

Physical and photo-chemical elimination

Note : no data

Biochemical degradation

Note : Biodegradation is expected

12.3. Bioaccumulation

Product: no data available

Bioaccumulation of the mixture components:

DL-lemon 138-86-3 Log KOW 4,57
Linalool - Log KOW 2,9 (pH value: 7, 20 °C)
4-allylanisole Log KOW 3,4 (pH value: 7, 25 °C)

Bioconcentration factor (BCF)

Notes : Not accumulated in the biological environment

12.4. Mobility in soil

Product:

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 (COD)

Value : No information available

Additional ecological information/ Mobility in soil

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	Dispose of in accordance with local and national requirements.
Contaminated packaging material	Contaminated packaging must be treated like the substance. Waste products should be treated in accordance with current local, national and European legislation.
European Catalogue waste number	: No waste code can be given to this product according to the European Waste Catalogue since it is related to its potential use. Waste code is given after consulting the regional waste Service.

13.1.2. Information on waste treatment — Contact a licensed professional for disposal of this material.

13.1.3. Information on discharge in sewer systems — Do not allow the product to fall into streams, canals or other waterways.

14. Information on transportation

Transport icon :

Class: 9 Miscellaneous dangerous substances and articles

14.1. UN proper shipping name

3082

14.2. UN proper shipping name

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, O.Y.O.

14.3. Transport hazard class(es)

Class 9, Pack,gr.III

14.4. Environmental hazards

14.5. Special precautions for user

Not applicable

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

Road transport

ADR	*Class 9, packing group III, UN 3082*
RID	*Class 9, packing group III, UN 3082*
Tunnel code	A, B, C, D

Waterway transport

ADN	*Class 9, packing group III, UN 3082*

Maritime transport

IMDG	*Class 9, packing group III, UN 3082*
Marine pollutant	*Yes*

Air transport

IATA/CAO	*Class 9, packing group III, UN 3082*

15. Regulatory information

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

Other regulations /	This safety data sheet is consistent with the Law on Protection

Laws	from Harmful Effects of chemical Substances and Preparations and the Ordinance on the Classification, Packaging and Labelling
EU legislative acts	: accordingly, EU regulations.
Other legal acts, restrictions and prohibitive standards	No information available

15.2. Chemical Safety Assessment

No information.
The supplier has not prepared a chemical safety assessment for this substance/mixture.

16. Other information

15. Shelf life 30 month from the date of manufacture.

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

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)
Asp Tox 4	Ingestion hazard
Aquatic Chronic 3	hazardous to the aquatic environment - chronic hazard
BCF	bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (prepares the most comprehensive list of chemicals)
Carc.2	Suspected of causing cancer
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 (see IATA/DGR))
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
Eye irrit.	Eye irritation
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)
Muta. 2	Suspected of causing genetic defects
NLP	A substance that no longer has the properties of a polymer
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)
Corrosion/irritation 2	Skin irritation
Skin Sens.	skin sensitization
vPvB	very Persistent and very Bioaccumulative
EU No in the list of the EC	(EINECS, ELINCS and NLP-list) is the source for the seven-digit EC number, an identifier for substances in commerce network within the EU (European Union)
Index №	the index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
VOC	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)

	List of relevant phrases (code and full text as defined in Section 2 and 3)
Code	**Text**
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H412	Harmful to aquatic life with long lasting effects
EUH 208	Contains Citral, Geraniol, Linalool, Limonene. May cause an allergic reaction.

	List of instructions for safe treatment, used in the safety document
P102	Keep out of reach of children
P201	Obtain special instructions before use.
P261	Avoid breathing vapours
P264	Wash hands thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace.
P363	Wash contaminated clothing before reuse.
P273	Avoid release to the environment.
P280	Use protective gloves/protective clothing/protective goggles /protective face mask.
P284	[In case of insufficient ventilation] Wear respiratory protection.
P305+P351+ P338	IF CONTACT WITH EYES: Rinse thoroughly with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P301+P310	IF SWALLOWED: Immediately call a doctor/physician.
P330	Rinse mouth
P302 + P352	IF ON SKIN: Wash thoroughly with water/...
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P333 + P313	In case of skin irritation or rash: seek medical advice/help
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.
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 only as a guide to safe handling, use, processing, storage, transportation, disposal and release and should not be considered a warranty or quality specification.
Due to the many factors beyond our control in the use of this product, we cannot accept responsibility for accidents, mishaps, loss or damage caused by its use.

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 Basil Oil / OCIMUM BASILICUM 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*	*1,0*	-	*1,0*
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*	*0,5*	-	*0,5*
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*	*1,0*	-	*1,0*
22	*LINALOOL*	*H315*	*78-70-6*	*201-134-4*	*20,0*	-	*20,0*
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 EO 1223/2009 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