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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 Laurel Bay Leaf Oil

Version 1,0: First edition Date of compilation: 22.05.2021 Date of publishing: 09.06.2021

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

1.1. Product Identifiers

Product name	:	Organic Laurel Bay Leaf Oil
Substance name (INCI)	:	LAUROS NOBILIS LEAF OIL
Botanic name	:	Laurus nobilis
CAS No	:	8002-41-3 / 8007-48-5
EO No	:	-
Biological origin	:	The oil is extracted from the leaves and offshoot of bay tree, Laurus nobilis L., Lauraceae family.

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

Use of substance/mixture	:	For application in food industry, perfumery and cosmetics by itself or as a formulation constituent, 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 Str.
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**
3.2	Skin	Skin irritation	Corrosion/irritation 2	H315
3.4	Sens.	Skin sensitization	(Skin sens 1)	H317
3.3	Eye	Eye irritation	(Corrosion)Damage/ Irritation. 2A	H319
3.10	Inh.	Aspiration toxicity	(Asp. Tox. 1)	H304
3.4.	Resp.	Sensitization	Respiratory Sensitization Category 1	H334
4.1	Chronic	Hazardous for 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

GHS08 GHS07 GHS09

Signal word : Hazardous

Hazard statements :

H304 May be lethal if swallowed or enters the respiratory tract
H315 Causes skin irritation
H317 May cause allergic skin reaction
H319 Causes serious eye irritation
H334 My cause allergic or asthmatic symptoms or difficulty when breathing in
H411 Harmful for aquatic life with long-lasting effect
EUH 208 Contains Eugenol, Estragole, b-Caryophyllene, Delta-3-Carene, Limonene, Methyl Eugenol, Alpha & Beta Pinene, Phellandrene, 1,8 Cineol, Isoeugenol. May cause allergic reaction.

Safety recommendations

Safety recommendations - General	P102	Keep out of reach of children
Safety recommendations - Prevention	P261	Avoid inhaling evaporations
	P273	Avoid release to the environment
	P280	Use protective gloves/protective clothing / protective goggles / protective facial mask
	P284`	[If inadequate ventilation] wear respiratory protection equipment
Safety recommendations - As a reaction	P305+ P351+338	If in the eyes: Rinse carefully with water for several minutes. Remove contact lenses if there are such and if possible. Continue rinsing.
	P301 + P310	IF SWALLOWED: immediately call a physician.
	P302 + P352	IF CONTACT WITH SKIN: Wash with plenty of water/...
	P333 + P313	In case skin irritation or rash occurs: Seek medical advice/help.
	P304 + P340	IF INHALING: remove the victim to fresh air and place him/her in a position that facilitates breading.
	P342 + P311	If difficulty in breathing in: call TOXICOLOGY CENTER or a Physician.
Safety recommendations In discharge	P501	Dispose of contents / container in an approved place and in compliance with the local and national regulations.

2.3. Other hazards

No other information available.

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

3. Composition/information on ingredients

3.1. Substances

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INGRIDIENT	IDENTIFIERS	%	CLASSIFICATION
LAURUS NOBILIS LEAF OIL	*EINECS NO: -* *CAS NO: 8002-41-3 / 8007-48-5*	*100,0*	 *DANGER* *Asp. Tox. 1 H304* *Skin Irrit. Cat.2, H315* *Skin Sens. 1B H317* *Eye Irrit. 2, H319* *Asp. Tox.1 H334* *Aquatic Chronic 2 H411*
a-PINENE	*EINECS NO: 232-077-3* *CAS NO: 7785-26-4*	*0,1 -1,0*	*Flam. Liq. 3 H226* *Skin Irrit. 2 H315* *Skin Sens. 1B H317* *Asp. Tox. 1 H304* *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*	*Asp. Tox. 1, H304* *Eye Irrit. 2, H319* *Aquatic Acute 1, H400*
ALPHA-PHELLANDRENE	*EINECS NO: 202-792-5* *CAS NO: 99-83-2*	*0,1 -1,0*	*Flam. Liq. 3 - H226* *Acute Tox. 4 H302* *Skin Irrit. 2 - H315* *Eye Irrit. 2, H319* *Asp. Tox.1 H334* *STOT SE 3, H335*
b-PINENE	*EINECS NO: 204-872-5* *CAS NO: 127-91-3*	*0,01 -1,20*	*Flam. Liq. 3 - H226* *Skin Sens. 1 - H317* *Skin Irrit. 2 - H315* *Asp. Tox. 1 - H304* *Aquatic Acute 1 - H400* *Aquatic Chronic 1 - H410*
BETA - MYRCENE	*EINECS NO: 204-622-5* *CAS NO: 123-35-3*	*< = 3,0*	*Flam. Liq. 3 - H226* *Asp. Tox. 1, H304* *Skin Irrit. 2 - H315* *Eye Irrit. 2 - H319*
P-CYMENE	*EINECS NO: 202-796-7* *CAS NO: 99-87-6*	*0,2 -1,5*	*Flam. Liq. 3 - H226* *Skin Irrit. 2 - H315* *Eye Irrit. 2 - H319* *STOT SE 3, H335* *Asp. Tox. 1 - H304*
1,8-Cineole	*EINECS NO: 207-431-5* *CAS NO: 470-82-6*	*< = 2,0*	*Flam. Liq. 3 - H226* *Skin Sens. 1 - H317* *Eye Irrit. 2 - H319* *Acute Tox.Oral 4 - H302* *Skin Irrit. 2 - H315*

Delta-3-Carene	*EINECS NO: 236-719-3* *CAS NO: 13466-78-9*	*1,0 - 5,0*	*Flam. Liq. 3: H226* *Skin Irrit. 2 - H315* *Skin Sens. 1: H317* *Asp. Tox. 1 - H304* *Aquatic Chronic 3, H412*
y-Terpinene *(GAMMA-TERPINENE)*	*EINECS NO: 202-794-6* *CAS NO: 99-85-4*	*0,1 -1,5*	*Flam. Liq. 3; H226* *Repr. 2; H361d* *Aquatic Chronic 2, H411*
ALLYLANISOLE **(Estragole)*	*EINECS NO: 205-427-8* *CAS NO: 140-67-0*	*8,0 -13,0*	*Acute Tox. 4 H302* *Skin Irrit. 2 H315* *Skin Sens. 1 H317*
LIMONENE	*EINECS NO: 227-813-5* *CAS NO: 5989-27-5*	*0,5 - 4,0*	*Flam. Liq. 3 - H226* *Skin Irrit. 2 - H315* *Skin Sens. 1 - H317* *Asp. Tox. 1 - H304* *Aquatic Acute 1 - H400* *Aquatic Chronic 1 - H410*
METHYL EUGENOL	*EINECS NO: 202-223-0* *CAS NO: 93-15-2*	*1,49*	*Acute Tox.4 H302* *Muta.2 H341* *Carc.2 H351* *Aquatic Chronic2 H411*
EUGENOL	*EINECS NO: 202-589-1* *CAS NO: 97-53-0*	*60,0 - 70,0*	*Asp. Tox. 1, H304* *Eye Irrit. 2 - H319* *Skin Sens. 1 - H317*
(-)-a-Copaene	*EINECS NO: -* *CAS NO: 3856-25-5*	*0,1 -1,41*	
b-Caryophyllene	*EINECS NO: 201-746-1* *CAS NO: 87-44-5*	*5,0 -10,0*	*Asp. Tox. 1 (H304)* *Skin Sens. 1 - H317*
a-Humulene	*EINECS NO: 229-816-7* *CAS NO: 6753-98-6*	*0,1 -1,0*	*Skin Irrit. 2 (H315)* *Eye Irrit. 2 - H319* *STOT SE 3, H335*
ISOEUGENOL	*EINECS NO: 202-590-7* *CAS NO: 97-54-1*	*< = 0,3*	*Acute Tox.4; H302,* *Skin Irrit.2; H315,* *Eye Irrit.2; H319,* *Skin Sens.1; H317,* *STOT SE3; H335*

- *Notes*

1. *The Estragole substance is mentioned in annex XIV of REACH.*

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).

- Following inhalation	:	Immediately terminate the exposure, remove the victim to fresh air.
- Following skin contact	:	Remove the contaminated clothing. Wash the affected area with plenty of water, if possible cool.
- Following eye contact	:	Immediately start rinsing the eyes with plenty of water for at least 10 min. If symptoms continue (irritation, hotness) seek medical advice.
- Following ingestion	:	If victim starts vomiting, take precautions to prevent the breathing in of the vomited substance (for there is a risk of damaging lungs after inhaling these liquids in the respiratory tract even in case of small quantities of the liquids). Provide medical treatment taking into account that a monitoring for at least 24 h is often necessary. If necessary provide the original container with the label and the Material Safety Data Sheet of the substance.

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

If contact with skin	:	May cause allergic skin reaction.
If contact with eyes	:	Causes serious eye irritation.
If inhaled	:	May cause allergic and asthmatic reactions or difficulty while breathing in.
If swallowed	:	Irritation, наусеа

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

Treatment	:	Treat symptomatically.

5. Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media	:	Alcohol resistant foam, carbon dioxide, powder, water jet, water mist.
Unsuitable extinguishing media	:	Water – high pressure jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire-fighting	:	In case of fire carbon monoxide, carbon dioxide and other toxic gases may be released. Inhaling hazardous decomposition products (pyrolysis) may cause serious health damage.

5.3. Advice for firefighters:

Special protective equipment for firefighters	:	Self-contained breathing apparatus with chemical protective clothing, only in case of a personal (direct) contact, Use self-contained breathing apparatus and protective clothing for the body as a whole. Closed contaiers with the product in them near the fire should be cooled with water. Avoid penetration of the flow-off use to extinguish the fire in sewer systems, surface and underground waters
Additional data	:	No information available.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For personnel not responsible for emergencies

The substance is flammable. Pressure vessel: may explode when heated.
Stop leakage, if you can do it without any risk. Use personal protective equipment at work. Follow the instructions in Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

For firefighters: Firefighters should be equipped with adequate personal protective equipment (see section 8).
High temperature can increase pressure in the container -cool the container spraying water. Avoid inhaling the released vapors.

6.1.2. For the persons responsible for emergencies

Personal protective equipment	:	Maintain good professional and personal hygiene. Avoid inhaling the vapors of the product and the contact with the skin and the eyes.

6.2. Environmental precautions

Environmental	:	Avoid penetration in sewer system. Avoid

precautions		contamination of soil and surface and underground waters.

6.3. Methods and materials for containment and cleaning up

6.3.1. For containment	:	The spilled product should be covered with Suitable (non-combustible) absorbing material (sand, desmid earth, soil or other suitable absorbing materials).
6.3.2. For cleanup	:	Collect in tightly closed containers and remove in accordance with the instructions in Section 13. In case of leakage of small quantity of the material inform the firefighting services and the other competent authorities. After removing the product wash the contaminated area with plenty of water. Do not use solvents.

6.4. Reference to other sections

See sections 7, 8 and 13.

7. Handling and Storage

7.1. Precautions for safe handling

Precautions	:	Work following the rules of the good industrial hygiene and safety measures. Avoid accidental contact with skin surfaces. Wear adequate protective clothing. Avoid inhaling. Prevent eye contact. Always wash hands after handling. Remove and wash the contaminated clothing before re-use.
Fire-fighting measures	:	Keep away from heat. Keep away from ignition sources.
Measures to avoid transformation into aerosols and powder	:	Use adequate ventilation or exhaust gases at the operation area.
Hygiene measures	:	Wash your hands before breaks and at the end of the working day. Avoid skin and eye contact.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	:	Store in full tightly closed containers, away from

heat, light other ignition sources at temperature of 15-25°C.

Incompatible materials	:	Keep away from nutrition products. Do not store near heat, sparks, naked flame, strong acids and strong alkali. To minimize the decomposition of the product avoid the long-term exposure of the material to air, When not in use keep the container tightly closed.
Packing materials	:	Always keep in packages preserving the integrity and the quality of the product.
Storage class	:	No information available.
Additional information on conditions of storage	:	No information available.
Recommendations for protection from fire and explosions	:	Keep away from ignition sources and naked flame.
Recommendations for primary storage	:	Use the good professional practices and occupational hygiene practices providing adequate ventilation for the operational area. Maintain good personal hygiene and do not eat, drink and smoke at work.

It is recommended to follow the requirements on packing and storage according to ISO/TS 210:2014.

7.3. Specific end use(s)

Recommendations	:	Before using read the label.
Solutions specific to the industry sector	:	No information available.
Specific use(s)	:	Used in food industry, perfumery and cosmetics by itself or as a formulation constituent, a part of composition.

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/m^3 -

Other occupational exposure limits

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

EUGENOL, NAT - CAS: 97-53-0
WORKER: 21.2 MG / M^3 - USER: 522 MG / M^3 - EXPOSURE: INHALATION - FREQUENCY: LONG TERM, SYSTEM EFFECTS

WORKER: 6 MG /KG - USER: 3 MG /KG - EXPOSURE: DERMAL CONTACT- FREQUENCY: LONG TERM, SYSTEMIC EFFECTS
USER: 3 MG /KG - EXPOSURE: ORAL - FREQUENCY: LONG TERM, SYSTEMIC EFFECTS
EUGENOL, NAT - CAS: 97-53-0
WORKER: 21.2 MG /M^3 - USER: 5.22 MG /M^3 - EXPOSURE: INHALATION - FREQUENCY: LONG TERM, SYSTEMIC EFFECTS

WORKER: 6 MG /KG - USER: 3 MG /KG - EXPOSURE: DERMAL CONTACT - FREQUENCY: LONG TERM, SYSTEMIC EFFECTS

USER: 3 MG / KG - EXPOSURE: ORAL HUMAN - FREQUENCY: LONG TERM, SYSTEMIC EFFECTS

fi-pinene 18172-67-3

DNEL 5,69 mg/m^3 human, inhalation worker chronic – systemic effects
DNEL 0,8 мг/кг mm/day human, dermal contact worker chronic – systemic effects

DNEL 54 ng/cm^2 човек, human, dermal contact worker chronic - local effects

camphene 79-92-5

DNEL 110,2 mg/m3 human, inhalation worker chronic – systemic effects
DNEL 110,2 mg/m3 human, inhalation worker acute – systemic effects
DNEL 0,21 мг/кг bodyweight/day human, dermal contact worker chronic - systemic effects
DNEL 1,25 мг/кг bodyweight/day human, dermal contact worker acute - systemic effects

PREDICTED NO EFFECT CONCENTRATION (PNEC):
EUGENOL NAT. -CAS:97-53-0
ENVIRONMENTAL COMPARTMENT - FRESH WATER – VALUE: 1,13 03
ENVIRONMENTAL COMPARTMENT - MARINE WATER – VALUE: 0,113 03
ENVIRONMENTAL COMPARTMENT – FRESH WATER SEDIMENT – VALUE: 0,081 MG/KG
ENVIRONMENTAL COMPARTMENT - MARINE SEDIMENT – VALUE 0.081 MG/KG
ENVIRONMENTAL COMPARTMENT – SOIL (AGRICULTURAL) VALUE: 0,0155 MG/KG
ENVIRONMENTAL COMPARTMENT – EMISSIONE SALTUARIA – VALUE: 11.3 03

EUGENOL NAT. -CAS:97-53-0

ENVIRONMENTAL COMPARTMENT - FRESH WATER – VALUE: 1,13 03
ENVIRONMENTAL COMPARTMENT - MARINE WATER – VALUE: 0,113 03
ENVIRONMENTAL COMPARTMENT – FRESH WATER SEDIMENT – VALUE: 0,081 MG/KG
ENVIRONMENTAL COMPARTMENT - MARINE SEDIMENT – VALUE 0.081 MG/KG
ENVIRONMENTAL COMPARTMENT – SOIL (AGRICULTURAL) VALUE: 0,0155 MG/KG
ENVIRONMENTAL COMPARTMENT – EMISSIONE SALTUARIA – VALUE: 11.3 03

fi-пинен 18172-67-3
PNEC 1,004 ng/l fresh water short term (instantaneous)
PNEC 0,1 ng/l marine water short term (instantaneous)
PNEC 3,26 mg/l sewage-treatment plant (STP) short term (instantaneous)
PNEC 0,337 mg/kg fresh water sediment short term (instantaneous)
PNEC 0,034 mg/kg marine water sediment short term (instantaneous)
PNEC 0,067 mg/kg soil short term (instantaneous)

camphene 79-92-5
PNEC 0,001 mg/l fresh water short term (instantaneous)
PNEC 0 mg/l marine water short term (instantaneous)
PNEC 10 mg/l sewage-treatment plant (STP) short term (instantaneous)
PNEC 0,026 mg/kg fresh water sediment short term (instantaneous)
PNEC 0,003 mg/kg marine water sediment short term (instantaneous)
PNEC 0,021 mg/kg soil short term (instantaneous)

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 the appropriate exposure control measures refer to the specified in subsection 1.2 identified uses of the substance or the mixture. Usually general or local exhaust ventilation is required to observe the limit(s) of exposure.

8.2.2. Personal protective equipment:
Use personal protective equipment, clean and correctly maintained. Keep the personal protective equipment in a clean place far from the operating area. Never eat, drink or smoke while handling the product. Remove and wash the contaminated clothing before re-use.

8.2.2.1.Eyes and face protection: Avoid eye contact. Use eye protectors (goggles complying with EN 166), intended to protect eyes from liquid splashes.

8.2.2.2.Skin protection

Hand protection	:	Wear appropriate protective gloves (chemical resistant according EN 374 standard) in case of prolonged or repeated skin contact. Recommended type of gloves: nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR) or PVA (polyvinyl alcohol).
Body protection	:	The protective clothing should be regularly washed. After a contact with the product all the contaminated parts of the body should be washed.
8.2.2.3. Respiratory tract protection	:	In case the ventilation is not sufficient respiratory tract protection equipment should be used. When vapors / aerosols type A are generated.
8.2.2.4. Thermal hazards	:	No information available.
8.2.2.5. Additional protection	:	In case of spillage protective boots against slipping may be used.
Training measures related to the avoiding of exposition	:	The training of the staff is organized according a company schedule.
Organization measures to avoid exposition	:	Training of staff
Technical measures to avoid exposition	:	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

State of aggregation	:	liquid
Appearance	:	Colorless – pale yellow to orange – brown liquid.
Color	:	pale yellow to orange-brown

Odor	:	Spicy, camphoric at the beginning, later sweetish.
Taste	:	sharp taste
Odor Threshold	:	No information available at the moment.
Melting point/freezing point	:	No information available.
Boiling point or initial boiling point and duration of boiling	:	No information available.
Flammability	:	flammable
Explosivity	:	The product is not explosive. It is possible explosive mixtures air/vapors to be generated
Lower and upper limit of explosivity	:	No information available.
Flash temperature	:	85-93°C - /external sources/
Boiling point	:	No information available.
Self-ignition temperature	:	No information available.
Decomposition temperature	:	No information available.
pH	:	No information available.
Solubility	:	Insoluble (water), glycerin.
Solubility	:	glyceride oils, benzyl benzoate, diethyl Phthalate /Its solutions in mineral oils and propylene glycol opalize/.
Partition coefficient n-octanol/water (logarithmic value)	:	No information available.
Vapor pressure	:	No information available.
Density and/or relative density	:	0.922
Vapor relative density	:	No information available.
Characteristics of particles	:	Not applicable.

9.2. Other information

Refractive index at n^{20}/d	:	1.450 -1.535
Relative density at d^{20}	:	0.901 - 0.995
Optical rotation at 20°C	:	-18.20

No other information is available.

9.2.1. Information on the classes of physical hazards

Note	:	No information available.

10. Stability and Reactivity

10.1. Reactivity

Advice	:	The product is considered stable at the recommended conditions of storage. The evaporations may combine with the air and form explosive mixture.

10.2. Chemical stability

Note	:	Stable at the recommended conditions of storage. Resistant to weak acids and alkali.

10.3. Possible hazardous reactions

Hazardous reactions	:	When exposed to high temperatures the substance may releases hazardous decomposition products such as carbon oxide, carbon dioxide and nitrogen oxide.

10.4. Conditions to avoid

Conditions to avoid	:	Keep away from ignition sources – do not smoke. Do not store near heat, sparks, naked flames, strong acids and strong alkali. To minimize the decomposition of the product avoid prolonged exposure of the material to air.
Thermal decomposition	:	No data available.

10.5. Incompatible materials

Materials to avoid	:	Alkaline metals, ammonia, oxidizers peroxides strong inorganic acids, PVC.

10.6. Hazardous decomposition products

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

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Laurus Nobilis Leaf Oil 8002-41-3

Method	**:**	LD50
Species	:	rat
Route of exposure	:	**oral**
Effective doze	:	-
Duration of exposure	:	-
Results	:	3,95 g/kg
Source	:	p337-338 Opdyke 1976

Laurus Nobilis Leaf Oil 8002-41-3

Method	**:**	LD50
Species	:	mouse
Route of exposure	:	**oral**
Effective doze	:	-
Duration of exposure	:	-
Results	:	3310 mg/kgJ
Source	:	Agricultural&FoodChem.22,777(1974)

Laurus Nobilis Leaf Oil 8002-41-3

Method	**:**	LD50
Species	:	mouse
Route of exposure	:	**dermal**
Effective doze	:	-
Duration of exposure	:	-
Results	:	>5 g/kg
Source	:	p337-338Opdyke1976

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

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

SPECIES : Rat

EUGENOL (CAS: 97-53-0)

Oral: LD50 = 2300 mg.kg

B-pinene 18172-67-3

Oral LD50 4.700 mg/kg rat TOXNET

.beta.-Myrcene

Intraperitoneal TDLO (mouse): 25 mg/kg; Oral LD50 (rat): >11.39 gm/kg; Oral LD50 (mouse): 5060 mg/kg

Isoeugenol 97-54-1
LD50 Oral - Rat -1.560 mg/kg

Notes: *Liver. Disordered liver functions. Nutritional and gross metabolism. Changes in: Reduction of body temperature (RTECS)*

Methyleugenol
LD50 Орално-Плъх-810 mg/kg

Corrosion/Skin irritation

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

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

EUGENOL 97-53-0
ЬB50Oral-Rat-male->2.000mg/kg(OECD Guideline 423) LD50 Inhalation-Rat-male-4 h-> 2,6 mg/l(OECD Guideline 403)

Notes : Causes skin irritation.

Serious eye damage/ irritation

Eugenol 97-53-0

Eyes-Rabbit Result: Eye irritation. (OECD Guideline 405)

Notes : Causes serious eye irritation.

Respiratory or skin sensitization

Eugenol 97-53-0
Local lymph node assay (LLNA)-Mouse Result: positive (OECD Guideline 429)

Isoeugenol 97-54-1
Maximum test – guinea pig
Result: positive
(OECD Guideline 406)
Notes: Classified according to (EC) 1272/2008, Annex VI (Table 3.1 / 3.2)

Notes	:	May cause allergic skin reaction. May cause allergic or asthmatic symptoms or difficulty in breathing in!

Ingestion

Note	:	No data available.

Mutagenicity of germ cells

Methyleugenol
It is supposed that it causes genetic defects. In vitro chromosome change test;
Result: positive

Methyleugenol
Limited evidence to prove the carcinogenicity in animal studies IARC:2B-
Group 2B: Possible carcinogenicity for human (4-Allylveratrole)

Note	:	*It is supposed that it causes genetic defects*

Carcinogenicity

Note	:	CAS 5989-27-5; IARC Group 3; the agent cannot be classified as carcinogenic for human
IARC: 3 Group 3	:	Cannot be classified as carcinogenic for human (Eugenol)

Summary of the assessment of CMR properties

Methyl Eugenol
Result – positive

Note	:	It is supposed that it causes cancer.

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 concentration vapor may cause

anesthetic effect. May be lethal if swallowed and in case it penetrates the respiratory tract.

Information on possible routes of exposure		
Note	:	Dermal. Oral.

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	:	The oil contains 1,8-cineol that can cause problems with central nervous system and breathing of the young children. At the same time it is potential a irritant for the mucous membranes (low risk) and skin sensitization (low risk) – avoid using on super

sensitive, ill or damage skin and children at an age lower than 2 years.
Please, remember that this oil contains methyl eugenol that is considered potentially carcinogenic by IFRA (based on high-dose study on rodents). It must be mentioned though that there is not evidence that the tumour in humans are cuse by the use of essencial oils.
Dilute before use. Before use a patch test should be done for people with sensitive skin.

11.2. Properties disturbing the functions of the endocrine system

Note : No information available.

12. Ecological information

Note : 70% of the mixture is classified as H411.

12.1. Toxicity

Product:
Acute (short-term) toxicity:
Fish

EUGENOL(CAS: 97-53-0)
LC50-Daniorerio(zebrafish)-13mg/l-96h(Eugenol).
(OECDTestGuideline203)

fi-пинен 18172-67-3
LC50 0,68 mg/l rainbow trout (Oncorhynchus mykiss) ECHA 96 h

camphene 79-92-5
LC50 0,72 mg/l fish ECHA 96h

Methyleugenol
LC50-Oncorhynchus mykiss (Rainbow trout)-6 mg/l-96 h
LC50-Oncorhynchus mykiss (Rainbow trout)-6 mg/l-96 h
LC50-Lepomis macrochirus (bluegill)-8,l mg/l-96 h
LC50-Oncorhynchus mykiss (Rainbow trout)-6,9 mg/l-96 h

Toxic for Daphnia and other aquatic invertebrates

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

β -pinene 18172-67-3

EC50 1,09 mg/l giant water flea ECHA 48 h

camphene 79-92-5
EC50 0,72 mg/l aquatic invertebrates ECHA 48 h

Algae/aquatic plants

β-pinene 18172-67-3

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

camphene 79-92-5
ErC50 >1.000 mg/l algae ECHA 72 h

Bacteria

Note : No data available

Chronic (long-term) toxicity:

β -pinene 18172-67-3
May cause long lasting adverse effect on aquatic environment.

Fish

Note : No data available

Shellfish

Note : No data available

Algae/water plants

Note : No data available

Other organisms

β -pinene 18172-67-3
EC50 326 mg/l microorganisms ECHA 3 h
β -pinene 18172-67-3
growth (EbCx) 10% 38 mg/l microorganisms ECHA 3 h
Camphene 79-92-5
EC50 >1.000 mg/l microorganisms ECHA 3 h
Camphene 79-92-5
growth (EbCx) 90% >1.000 mg/l microorganisms ECHA 3 h

12.2. Persistence and degradability

Product:

Abiotic degradation

Degradation of mixture components

DL-a-pinene 80-56-8	
oxygen depletion	*68 % - 28 d*
β -pinene 18172-67-3	
Oxygen depletion	*76 % - 28 d*
Myrcene 123-35-3	
Oxygen depletion	*76 % - 28 d*

Physical and photo-chemical elimination

Note : No data available

Biochemical degradation

Note : Biodegradation expected.

12.3. Bioaccumulation

Product: No data available

Bioaccumulation of mixture components

DL-a-pinene 80-56-8	*Log KOW4,83*
β -pinene 18172-67-3	*Log KOW4,425 (25 °C)*
δ-3-carene 13466-78-9	*Log KOW 4,38*
***DL**-citrene 138-86-3*	*Log KOW 4,57*
Myrcene 123-35-3	*Log KOW4,82 (pHvalue:~6,5, 30 °C)*
Camphene 79-92-5	*Log KOW4,22 (pHvalue:7,2, 37 °C)*

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 persistent, bioaccumulative or toxic PBT.

Product:		
Results from PBT and vPvB assessment		
Note	:	No data available

12.6. Other adverse effects

Product:		
Biochemical oxygen demand (BOD)		
Value	:	No information available
Chemical oxygen demand (BOD)		
Value	:	No information available
Additional ecological information/Mobility in soil		
Notes	:	No information available

12.7. Additional information

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

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 all local and national regulations.
Contaminated packaging material	:	Dispose of as unused product. Do not contaminate soil, water or environment with waste containers. Waste products should be treated according to the applicable 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 an authorized professional service to dispose of this material.

13.1.3. Information on discharge in sewer systems : Do not discharge in streams, sewer systems or other water routes.

14. Information on transportation

Transport icon : Class 9 Various hazardous substances and articles

`14.1. UN number

UN 3082

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

Клас 9, Pack. Gt. III

14.4. Environmental hazard

14.5. Secial precautions for user

Other applicable information (road transport)

E1

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

Road transport

ADR

RID

3082 HAZARDOUS SUBSTANCES IN TERMS OF ENVIRONMENT,LIQUID, n.o.s.
Classification code: M6
Limited quantity: 5l
Transport category: 3
No of hazard: 90
Tunnel limitation code: E

Waterway transport

ADN

3082 HAZARDOUS SUBSTANCES IN TERMS OF ENVIRONMENT,LIQUID, n.o.s.
Classification code: M6
Special regulations: Limited quantity: 5l

Maritime transport

IMDG

3082 HAZARDOUS SUBSTANCES IN TERMS OF ENVIRONMENT, LIQUID, n.o.s., Marine pollutant: Yes
Special regulations: 274, 335
Limited quantity: 5l
EmS: F-A, S-F

Air transport

IATA/CAO

3082 HAZARDOUS SUBSTANCES IN TERMS OF ENVIRONMENT,LIQUID, n.o.s.
Special regulations: A97, A158
Limited quantity: 30 kg G
IATA Packing instructions: Cargo 964
IATA – maximum quantity – Cargo:450 l
IATA Packing instructions: Cargo 964
IATA – maximum quantity – Cargo:450 l

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 Substances and Preparations and the Ordinance on the

EU legislative acts	: accordingly, EU regulations.
Permits or restrictions for use	: According to Regulation 1223/2009. * The component methyl eugenol is not permuted for use in cosmetics products excluding the cases it is a natural ingredient of the essential oils or other natural flavoring product. In the end product it should not exceed the following quantities: -0.01% in fine perfumes; -0.004% in toilet water; -0.002% cream perfumes; -0.0002% - other leave-on products and oral products; -0.001% rinse-off products * The maximum level for the dermal application of this oil is 0.013% - for leave-on cosmetics product and 0.06% for rinse-off product, it depends on the methyl eugenol content in the oil.

15.2. Chemical Safety Assessment

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

16. Other information

Shelf life 2 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)
Asp Tox 1	Aspiration hazard
Aquatic Chronic 2	Hazardous for aquatic environment – chronic toxicity
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 (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 Existing Commercial Chemical Substances
EmS	Emergency Schedule
Eye Irrit.	Eye irritation
Flammable liquids 3	Flammable liquids
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" ", developed by the United Nations
IATA	International Air Transport Association
IAT/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	No-longer 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 EC List	(EINECS, ELINCS and NLP – list) is the source of the seven digit number, identifying the substances at the commercial network of the European Union
Index No	The index number is the identification code of 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**
H304	Can be lethal if swallowed or enters the respiratory tract
H315	Causes skin irritation
H317	May cause allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergic or asthmatic symptoms or difficulty in breathing in

H411	Toxic for aquatic life with long-lasting effect
EUH208	Contains Eugenol, Estragole, b-Caryophyllene, Delta-3-Carene, Limonene, Methyl Eugenol, Alpha & Beta Pinene, Phellandrene, 1,8 Cineol, Isoeugenol. Маъ цаусе аллергиц реацтион.
	List of instructions for safe treatment, used in the safety document
P102	Keep away from children
P301+P310	IF SWALLOWED: Immediately call a physician.
P331	DO NOT induce vomiting
P284	(If inadequate ventilation) use respiratory tract protective equipment.
P304 + P340	IF INHALED: remove the victim to fresh air and locate him (her) in a position facilitating the breathing
P3423 + P311	If symptoms of difficulty in breathing: call the TOXICOLOGY CENTER/physician/…
P280	Wear protective gloves/protective clothing/goggles/protective facial mask
P302 + P352	IF SKIN CONTACT: wash with plenty of water…
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.
P333 + P313	If skin irritation or rash: seek medical advice/help.
P273	Avoid release in environment
P501	Dispose of the content / container in an approved for disposal place in compliance with the local and national regulations.

Other information : In accordance with general product specification:
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 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 presented is intended only as a guidance for proper and safe use, handling, processing, storage, transportation and disposal, and should not be considered a guarantee or a quality specification.
Due to the man factors out of our control we cannot assume responsibility for any incidents, accidents, loss or damage resulting from the use of this product

E N D!

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

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

Name of product: Organic Laurus Nobilis 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*	-	-	-
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*	*67,94*	-	*67,94*
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*	*0,25*	-	*0,25*
20	*BUTYLPHENYL METHYLPROPIONAL (LILIAL)*	*H317*	*80-54-6*	*201-289-8*	-	-	-
21	*LIMONENE*	*H226; H315 H317; H411*	*5989-27-5*	*227-813-5*	*2,94*	-	*2,94*
22	*LINALOOL*	*H315*	*78-70-6*	*201-134-4*	-	-	-
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 here by amended as follows:
The presence of the substance must be indicated in the list of ingredients referred to in Article 6(1)(g) when its concentration exceeds:— **0,001 %** in"**leave-on"** products, (and)— **0,01 %** in**"rinse-off"** products