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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 Vanilla Extract

Version 02 Date of creation: 23.12.2020
Supersedes the version from: 30.12.2020 Date of new version: 15.04.2022

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

1.1. Product Identifiers

Trade name	:	Organic Vanilla Extract
Registration No	:	-
Substance name (INCI)	:	VANILLA PLANIFOLIA FRUIT EXTRACT
Substance No	:	-
CAS №	:	8024-06-4 / 84650-63-5
EO №	:	- / 283-521-8
Country of origin	:	India
Biological origin	:	Obtained by solvent extraction of whole ripe vanilla beans, Vanilla planifolia, Orchidaceae.

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

Use of substance/mixture /	:	Used in perfumery and cosmetics by itself, aromatherapy or as a formulation constituent, a part of composition.
Recommended restrictions on use	:	Avoid contact with eyes!
Reason not to recommend use:		Causes 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
National telephone: 112

2. Hazards Identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP)

Classification according to GHS				
Chapter	**Subsection**	**Class of hazard**	**Class of hazard and category of hazard**	**Hazard statements**
3.1	Oral	Acute toxicity	(Acute Tox. 4)	H302
2.6	Flammable	Flammable liquids	Flammable Liquids. 3	H226
3.2	Skin	Skin irritation	Corrosion/irritation	H315
3.3	Eye	Eye irritation	(Corrosion)Damage/ Irritation. 2A	H319

2.1.2. Label Elements

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

Hazard pictograms

GHS02 GHS07

Signal word : Caution

Hazard statements concerning physical hazards : H226 Flammable liquid and vapors

Hazard statements : H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
EUH 208 Contains Eugenol, Anise Alcohol, Benzyl Benzoate. May cause an allergic reaction.

Safety recommendations

Safety recommendations - General	:	P102	Keep out of reach of children
Safety recommendations - Prevention	:		
		P210	Avoid exposing to heat.
		P264	Thoroughly wash hands after handling.
		P273	Avoid release to the environment.
		P280	Use protective gloves/protective clothing/protective goggles/protective facial mask.
Safety recommendations - As a reaction	:		
		P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
		P305+P351+ P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
		P302 + P352	IF ON SKIN: Wash thoroughly with water/...
		P333+P313	If persisting eye irritation or skin rash occurs: Seek medical advice/help.
- If stored		P403 + P235	Store in a well ventilated place.Keep cool.
- Disposal		P501	Dispose of contents/container at an approved disposal site in accordance with local and national regulations.

2.2. Other hazards

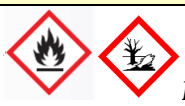
No other information available.

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

3. Composition/information on ingredients

3.1. Substance - Not applicable

3.2. Mixture

INGRIDIENT	***IDENTIFIERS***	***%***	***CLASSIFICATION***
Ethanol	*EINECS NO: 200-578-6* *CAS NO: 64-17-5* *INDEX NO: -* *NAME: Ethanol .* *REACH REGIST. NO: -*	*≥ 20,0- < 25,0*	 *DANGER* *Flam liq, Cat.2, H225* *Eye .irrit, Cat. 2A; H319* *STOT- sing.exp. Cat.3, H336*

Butyric Acid	*EINECS NO: 203-532-3* *CAS NO: 107-92-6*	*< 0,05*	*Skin cor, Cat 1B, H314*
Dipropylene Glycol	*EINECS NO: 203-821-4 / 246-770-3* *CAS NO: 110-98-5 / 25265-71-8*	*≥ 1,0- < 5,0*	*Not classified as hazardous according to the EC Regulation 1272/2008/EC*
1-Propanol, 2,2'-oxybis-	*EINECS NO: -* *CAS NO: 108-61-2*	*≥ 1,0- < 5,0*	*Skin Irrit. 2 (H315)* *Eye Irrit. 2A (H319)* *STOT SE 3, H335*
2-(2-Hydroxypropoxy)-1-propanol	*EINECS NO: 203-416-2* *CAS NO: 106-62-7*	*≥ 1,0- < 5,0*	*Not classified as hazardous according to the EC Regulation 1272/2008/EC*
Ethylal	*EINECS NO: 207-330-6* *CAS NO: 462-95-3*	*≥ 0,1- < 1,0*	*Flam. liq,Cat. 2 H225* *Skin Irrit. 2 (H315* *Eye Irrit. 2A (H319)* *STOT SE 3, H335*
Methyl Salicylate	*EINECS NO: 204-317-7* *CAS NO: 119-36-8*	*≥ 5,0- < 10,0*	*Acute Tox Oral 4.; H302*
ANISALDEHYDE	*EINECS NO: 204-602-6* *CAS NO: 123-11-5*	*≥ 5,0- < 10,0*	*Not classified as hazardous according to the EC Regulation 1272/2008/EC*
ANISE ALCOHOL	*EINECS NO: 203-273-6* *CAS NO: 105-13-5*	*≥ 15,0- < 20,0*	*Acute Tox Oral 4.; H302* *Skin irrit, Cat. 2, H315* *Eye Irrit. 2A (H319)* *STOT SE 3, H335*
HELIOTROPINE	*EINECS NO: 204-409-7* *CAS NO: 120-57-0*	*≥ 1,0- < 5,0*	*Skin Sens. 1 – H317*
EUGENOL	*EINECS NO: 202-589-1* *CAS NO: 97-53-0*	*≥ 1,0- < 3,0*	*Flam. Liq. 3 – H226* *Eye Irrit. 2 - H319* *Aquatic Chronic 4 – H413* *Acute Tox. 4, H302* *Skin Irrit. 2 – H315* *Skin Sens. 1 – H317*
VANILLIN	*EINECS NO: 204-465-2* *CAS NO: 121-33-5*	*≥ 20,0- < 25,0*	*Eye Irrit. 2 - H319*
P-ANISYL ACETATE	*EINECS NO: 203-185-8* *CAS NO: 104-21-2*	*< 0,1*	*Not classified as hazardous according to the EC Regulation 1272/2008/EC*
ETHYL VANILLIN	*EINECS NO: 204-464-7* *CAS NO: 121-32-4*	*≥ 5,0- < 10,0*	*Acute Tox Oral 4.; H302* *Skin irrit, Cat. 2, H315* *Eye Irrit. 2A (H319)* *STOT SE 3, H335*
BHT	*EINECS NO: 204-881-4* *CAS NO: 128-37-0*	*≥ 0,1- < 0,3*	*Aquatic Acute 1, H400* *Aquatic Chronic 1, H410*

BENZYL BENZOATE	*EINECS NO: 204-402-9* *CAS NO: 120-51-4*	*17,0 – 22,0*	*Acute Tox. 4; H302* *Aquatic Chronic 2, H411*

4. Мерки за първа помощ 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 : Following inhalation: fresh air.

- Following skin contact : Wash using cool running water. If symptoms of skin irritation occur (redness) seek medical assistance.

- Following eye contact : Rinse thoroughly with water while keeping the eyelids wide open. Call an ophthalmologist if necessary. Remove the contact lenses.

- Following ingestion : Harmful if swallowed. Give the victim water to drink (at least two glasses). Consult a doctor if they feel unwell.

- Self-protection of first aid provider : Personal protective equipment is recommended for first aid providers.

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

Symptoms : Dizziness, narcosis, intoxication, euphoria

Effects : Irritant effect, respiratory paralysis, Dermatitis, Retching, Vomiting

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

Treatment : There isn't a specific antidote.
Treat symptomatically.
No other information available.

5. Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2), foam, Dry powder, Water

Unsuitable extinguishing : No information available.

media

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	:	Flammable. Vapors are heavier than air and spread along the floor. Forms explosive mixtures in air at elevated temperature. Watch out for igniting the leak residues. Hazardous flammable gases or vapors may be produced in case of fire.
Specific hazards during fire-fighting	:	In case of fire the extinguished material should be insulated.

5.3. Advice for firefighters:

Special protective equipment for firefighters	:	In case of fire, wear self-contained breathing apparatus.
Additional information	:	Move the container out of the hazardous area and refrigerate it with water. Protect surface and underground water from contamination with water used in firefighting.

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	:	Avoid contact with the substance. Do not inhale vapors, aerosols. Provide adequate ventilation. Keep away from heat and sources of ignition. Evacuate the threatened area, follow emergency measures, consult a specialist.
Emergency procedures	:	Remove the ignition sources, provide adequate ventilation.

6.1.2. For the persons responsible for emergencies

For protective equipment see section 8.

6.2. Environmental precautions

Environmental Precautions	:	Do not allow discharge in sewer system. Explosion hazard.

6.3. Methods and materials for containment and cleaning up

6.3.1. For containment	:	Covered drains. Collection, connection and pumping of spilled material. Observe possible material restrictions (see section 7 and 10).
6.3.2. For cleanup	:	Absorb with liquid absorbent material (e.g. Chemizorb®). Submit for disposal. Clean the affected area.
6.3.3. Other information	:	Wear personal protective clothing as described in SECTION 8 of this Material Safety Data Sheet.

6.4. Reference to other sections

See Chapter 13 for waste treatment instructions.

7. Handling and Storage

7.1. Precautions for safe handling

Precautions	:	Work following the good occupational hygiene and safety practice. Follow label directions.
Fire-fighting measures	:	Keep away from open flames, hot surfaces and sources of ignition. Take precautions against discharging static electricity.
Hygienic measures	:	Change contaminated clothing. It is recommended to apply a protective cream on the skin. Wash your hands after handling the substance.
Measures to avoid transformation into aerosols and powder	:	Ensure adequate ventilation of the work area. Make sure there is adequate ventilation, especially in enclosed areas. General or local exhaust ventilation is usually required to meet exposure limits. The electrical equipment should be grounded and comply with the applicable electrical code.
Environmental precautions	:	Follow the storage instructions for 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	:	Keep away from heat and sources of ignition. Keep the container tightly closed in a dry and well-ventilated place.
Packing materials	:	Store in closed containers, away from heat, light and other sources of ignition. Store in a cool place.
Requirements to storage areas or containers	:	Use local and general ventilation in the premises at the recommended temperature
Storage class	:	3
Additional information for storage conditions	:	Store at temperatures, from 15 to 30°C.
Recommendations for fire and explosion protection	:	Avoid all ignition sources. Ventilate the premises. Do not smoke.
Dust explosion class	:	No information availabe
General rules are recommended according to	:	**СД ISO/TS 210:2015.**

7.3. Specific end use(s)

Recommendations	:	No information available.
Solutions specific to the industry sector	:	No information available.
Specific use(s)	:	Used in perfumery and cosmetics by itself or as a formulation constituent, included in a composition.
Additional information:		Follow the regulation relative to the application: • Therapeutic Products Act in case they are advertised as medications or medical products (medicative effects; health effects). • Food Law and its regulations if advertised as dietary 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 feed regulation if it is advertised as a feed additive.
• The Biocides 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

Ingredients with environmental control parameters

Regulation No. 13 of December 30, 2003 on the protection of workers from risks related to exposure to chemical agents at work - (amended and supplemented, SG No. 73 of September 4, 2018): Limit values of chemical agents in the air of the working environment:

Ethanol (64-17-5) *BG OEL Time Weighted Average Value (TWAV) 1.000mg/m³*

№ по ред	Химичен агент	CAS №	Гранични стойности					Забележка
			8 часа			15 min		
			mg/m³	бр.вл/ cm³	ppm	mg/m³	ppm	
1.	Етилов алкохол	64-17-5	1000					

No-effect dose/concentration obtained (DNEL)

Ethanol (64-17-5)

DNEL for a worker, acutely Local effect inhalation 1900mg/m³
DNEL for a worker, long-term System actions skin 343mg/kg Body weight
DNEL for a worker, long-term System actions inhalation 950mg/m³
DNEL for a consumer, acutely Local effect inhalation 950mg/m³
DNEL for a consumer, long-term System actions skin 206mg/kg Body weight
DNEL for a consumer, long-term System actions inhalation 114mg/m³
DNEL for a consumer, long-term System actions orally 87mg/kg Body weight

Butyric acid 107-92-6

Consumer DNEL, long-term System effects orally 0,66 mg / kg body weight
Worker DNEL, long-term System effects dermal 2,67 mg / kg body weight
Consumer DNEL, long-term System effects dermal 0,66 mg / kg body weight
Worker DNEL, long-term System effects inhalation 36,8 mg / m³
Consumer DNEL, long-term System effects inhalation 9,15 mg / m³

Eugenol, nat - cas: 97-53-0

Industry of the worker: 21.2mg / m³ - consumer: 5.22mg / m³ - exposure: human inhalation - frequency: long
term, systemic effects
industry of workers: 6mg /kg - consumer: 3mg / kg - exposure: dermal to the skin - frequency: long-term, systemic effects
consumer: 3mg / kg - exposure: oral to humans - frequency: long-term, systemic effects

Eugenol, nat - cas: 97-53-0

Industry of the worker: 21.2mg / m³ - consumer: 5.22mg / m³ - exposure: human inhalation - frequency: long
term, systemic effects
industry of workers: 6mg / kg - consumer: 3mg / kg - exposure: dermal to the skin - frequency: long-term, systemic effects
consumer: 3mg / kg - exposure: oral to humans - frequency: long-term, systemic effects

Recommended observational procedures
The workplace atmosphere measuring methods should meet the requirements of the norms DIN EN 482 and DIN EN 689.
Predicted no effect entration (PNEC)
Ethanol (64-17-5)
PNEC Freshwater environment 0,96 mg/l
PNEC Sea water 0,79 mg/l
PNEC Sediments in Freshwater environment 3,6 mg/kg
PNEC Soil 0,63 mg/kg
PNEC Intermittent release in water 2,75 mg/l
PNEC waste water treatment plant 580 mg/l
PNEC orally 720 mg/kg

Butyric acid 107-92-6
Sea water PNEC 0,0045 mg / l
PNEC Fresh water 0,0451 mg / l
PNEC Water intermittent release 0,451 mg / l
Waste water treatment plant PNEC 51 mg / l
PNEC Marine sediment 0,0367 mg / kg
PNEC Sediment of Fresh water 0,368 mg / kg
PNEC Soil 0,047 mg / kg

Vanillin 121-33-5
PNEC Freshwater environment 0,118 mg/l
PNEC Sea water 0,0118 mg/l
PNEC Sediments in Freshwater environment 58,22 mg/kg
PNEC Sediments in Sea water 5,82 mg/kg
PNEC Soil 11,54 mg/kg
PNEC waste water treatment plant 10 mg/l

8.2. Exposition controls

8.2.1. Appropriate engineering control

Measures related to the substance/ mixture to prevent exposure during identified uses	Technical measures and appropriate work processes should be given priority over the use of personal protective equipment.

8.2.2. Personal protective equipment: Protective clothing must be selected according to the workplace, depending on the work, as well as the concentration and amount of the hazardous substance. Chemical resistance of protective clothing should be established with the relevant supplier.

8.2.2.1. Eyes and face protection: Safety glasses with side shields

8.2.2.2.Skin protection

Защита на ръцете:

The material, out of which the gloves are manufactured, should be impermeable and resistant to the material/substance/ mixture. No tests had been performed, and as a result no recommendations can be made what kind of material to be used for the gloves for this product/substance/mixture.
The selection of the appropriate gloves does not depend only on the material, but also on the additional quality characteristics, that are different for the different manufacturers.
The data concerning the exact time of penetration should be taken from the manufacturer of the protective gloves and should be followed.

Other skin protection: Prophylactic skin protection /creams/ ointments. Antistatic, fireproof protective clothing.

8.2.2.3. Respiratory tract protection : Filter A is required in case of formation of vapors/aerosols (according to BDS DIN 3181) for vapors of organic compounds.

8.2.2.4. Thermal hazards : No information available.

Environmental exposure controls : Do not allow the product to enter the drain. Danger of explosion.

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

Training measures required to avoid exposure	:	Training of the staff upon a company schedule.
Organization measures to avoid exposure	:	Training of staff
Technical measures to avoid exposure	:	Training of staff

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance/type	:	Viscous liquid
Colour	:	from tan to dark brown
Odour	:	A very rich, warm, sweet, somewhat woody/animalic aroma, with soft notes of spice and tobacco and a very deep, sweet, balsamic vanilla scent
Odour threshold	:	no current information
Solvent content, in %	:	~ 21.0 (Ethanol)
Vanillin content, in %	:	~ 21.0
Melting point/limits	:	No information availabe
Boiling point	:	No information availabe
Ignition temperature	:	~ 35 °C Information taken from reference and literary sources. Method: DIN EN ISO 9038.2013-12 Keeps the combustion going.
Evaporation rate	:	No information availabe
Flammability (solid substance, gas)	:	No information availabe
Upper explosion limit	:	No information availabe

Lower explosion limit	:	No information availabe
Vapor pressure	:	No information availabe
Relative density of vapors	:	No information availabe
Density	:	No information availabe
Solubility	:	Soluble in alcohol and oils. Almost insoluble in water
Partition coefficient n-octanol/water	:	No information availabe
Ignition temperature	:	No information availabe
Thermal decomposition	:	No information availabe
Kinematic viscosity	:	No information availabe
Explosivity	:	Not classified as explosive
Oxidizing properties	:	No information availabe

9.2. Other information

Relative density	:	0.880 - 1.180 at 20 °C
Refraction index	:	1.460 - 1.510 at 20 °C
Extraction method	:	Solvent extraction

10. Stability and Reactivity

10.1. Reactivity

Note	:	Vapours/air mixtures are flammable when strongly heated.

10.2. Chemical stability

Note	:	The product is chemically stable under standard environmental conditions (room temperature).

10.3. Possible hazardous reactions

Hazardous reactions	:	Risk of explosion/exothermic reaction with: carbon peroxide, perchlorates, perchloric acid, Nitric

	acid, mercury (II) nitrate, permanganic acid, Nitriles, peroxide compounds, strong oxidizers, nitrosyl compounds, Peroxides, sodium, Potassium, halogen oxides, calcium hypochloride, nitrogen dioxide, metal oxides, uranium hexafluoride, iodides, Chlorine, Alkali metals, Alkaline earth metals, alkaline oxides, Ethylene oxide silver, Nitric acid, silver compounds, Ammonia, potassium permanganate, concentrated sulfuric acid
Risk of ignition or formation of easily flammable gases or vapors with:	halogen-halogen compounds, oxide of chromium (VI), chromyl chloride, Fluorine, hydrides, Oxides of phosphorius, platinum, Nitric acid, potassium permanganate

10.4. Conditions to avoid

Conditions to avoid	:	Heating
Thermal decomposition	:	No information available

10.5. Incompatible materials

Materials to avoid	:	Rubber, various plastics

10.6. Hazardous decomposition products

Hazardous decomposition products	:	No information available

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Vanilla Extract (ethanol extract)
Oral LD50 (rat): > 5 g / kg

Vanilla Extract (ethanol extract)
Dermal LD50 (rat): > 2 g / kg

ETHANOL
Acute oral toxicity
LD50 Rat: 10.470 mg/kg OECD Test guidelines 401

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

Butyric acid 107-92-6
LD50 Rat: 2.940 mg/kg (IUCLID)

DIPROPYLENE GLYCOL 110-98-5
LD50 Rat: > 5.000 mg/kg

Methyl Salicylate 119-36-8
LD50 Oral - rat - male and female - 887 mg/kg (OECD Test Guideline 401)

Methyl Salicylate 119-36-8
LD50 Dermal - rabbit - > 5.000 mg/kg

Anise Alcohol 105-13-5
LD50 Orally - Rat - female - > 5.000 mg/kg (OECD Test guidelines423)

Anise Alcohol 105-13-5
LD50 Dermal - Rabbit - 3.000 mg/kg (OECD Test guidelines 402)

Piperonal 120-57-0
LD50 Orally - Rat - 2.700 mg/kg
Notes: Behavioral: somnolence (generally suppressed activity). Behavioral: excitability. Behavioral: ataxia.

Piperonal 120-57-0
LD50 Dermal - Rat - > 5.000 mg/kg

Vanillin 121-33-5
LD50 Rat: 3.978 mg/kg OECD Test guideline420

Vanillin 121-33-5
LD50 Rat: > 2.000 mg/kg OECD Test guidelines 402

Ethyl vanillin 121-32-4
LD50 Orally - Rat - > 3.160 mg/kg (OECD Test guidelines 401)
LD50 Dermal - Rat - > 2.000 mg/kg (OECD Test guidelines 402)

ANISALDEHYDE 123-11-5
LD50 Rat: 3.210 mg/kg OECD Test guidelines 401

ANISALDEHYDE 123-11-5
Acute dermal toxicity LD50 Rabbit: > 5.000 mg/kg

BENZYL BENZOATE 120-51-4
LD50 Orally - Rabbit - 1.680 mg/kg
Notes:
Behavioral: convulsions or effects on seizure threshold.
Lungs, chest or breathing: dyspnea. (RTECS)
Symptoms: Nausea, Vomiting, Diarrhea
Symptoms: Symptoms of respiratory tract irritation.
LD50 Dermal - Rabbit - 4.000 mg/kg
Notes: (RTECS)

Corrosion/Skin irritation

DIPROPYLENE GLYCOL 110-98-5
LD50 Rabbit: > 5.000 mg/kg (External MSDS)

Methyl Salicylate 119-36-8
Skin – rabbit, Result: Mild skin irritation - 4 h (OECD Test Guideline 404)

Anise Alcohol 105-13-5
Skin - artificially created human epidermis (RhE)
Result: Skin irritation (OECD Test guidelines 439)

Ethyl vanillin 121-32-4
Skin - Human
Result: slight irritation - 48 h (Draize Test) Notes: (RTECS)

Vanilla Extract (ethanol extract)
Notes : Moderate skin irritation is observed

Serious damage/Eye irritation

ETHANOL
Rabbit
Result: Eye irritation OECD Test guidelines 405

Anise Alcohol 105-13-5
Eyes - In vitro study
Result: Causes serious eye irritation. (OECD Test guideline492)

Vanillin 121-33-5
Eye irritation Rabbit
Result: Eye irritationOECD Test guidelines405
Causes serious eye irritation.

Ethyl vanillin 121-32-4
Eyes - Rabbit
Result: Eye irritation(OECD Test guidelines405)

Notes : Causes serious eye irritation

Respiratory or skin sensitization

EUGENOL (CAS: 97-53-0)
in vivo assay-Mouse(Eugenol). (OECDTestGuideline429)

Anise Alcohol 105-13-5
Examination of local lymph nodes (PLNA) - Mouse
Result: This product is a dermal sensitizer, subcategory 1B.
(OECD Test guidelines 429)

Piperonal 120-57-0
Maximization test - Guinea pig
Result: positive (OECD Test guidelines 406)

Note : May cause sensitization at skin contact.

Mutagenicity of germ cells

Rat (eugenol), Liver, Damage to DNA
Mouse (eugenol), lymphocytes
Mutation in mammalian somatic cells.
Hamster (eugenol) embryo

DNA synthesis
Hamster (eugenol) embryo

Morphological transformations.
Hamster (eugenol) embryo

Carcinogenicity

IARC: 3-Group3 : Cannot be classified related to its carcinogenicity to people (Eugenol)

Summary of the assessment of CMR properties

Note : no data available

STOT (specific target organ toxicity) — single exposure

Note : no data available

STOT (specific target organ toxicity) — repeated exposure

Note : no data available

Aspiration hazard

ETHANOL
LC50 Rat: 124,7 mg/l; 4 h ; vapours OECD Test guidelines 403

Anise Alcohol 105-13-5
Inhalation: Irritating to respiratory tract

Information on possible routes of exposure

Note : Skin absorption

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 : Exposure to solvent vapors in excess of the specified occupational exposure limit may cause adverse health effects such as irritation of mucous membranes and the respiratory system and adverse effects on the kidneys, liver and central nervous system. Repeated or prolonged contact with the substance may cause removal of the natural oil from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes can cause irritation and reversible damage.

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

Information on the mixture and information on the substances		
Note	:	Toxicological characteristics are not comprehensively studied

Other information		
Note	:	The toxicology information is based on the information concerning the content and the available information.

11.2. Properties disturbing the functions of the endocrine system

Note : No information available

12. Ecological information

Basic information: The information presented in this section doesn't belong to the product itself, but results from the toxicity data of its components

12.1. Toxicity

Product:

Acute (short-term) toxicity:

Fish

ETHANOL
Toxic to fish
progress test EC50 Pimephales promelas (A small fish, stickleback): 15.300 mg/l; 96 h
Analytical observation: yes, US-EPA

EUGENOL
LC50-Daniorerio(zebrafish)-13mg/l-96h(Eugenol). (OECDTestGuideline203)

Butyric acid 107-92-6
LC50 Leuciscus idus (Golden orfe): 245 mg/l; 48 h (IUCLID)

DIPROPYLENE GLYCOL 110-98-5
LC50 Carassius auratus (goldfish): > 5.000 mg/l; 24 h (ECOTOX Database)

2-(2-HYDROXYPROPOXY)-1-PROPANOL 106-62-7

LC50; Species: Lepomis macrochirus (Bluegill, length 33-75 mm); Conditions: freshwater, static, 23\u00b0C, pH 7.6-7.9, hardness 55 mg/L CaCO3; Concentration: 1,700,000 ug/L for 96 hr

Methyl Salicylate 119-36-8
static test LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h (OECD Test Guideline 203)

Anise Alcohol 105-13-5
static test LC50 - Danio rerio (Barbus tetrazona) - > 64 mg/l - 96 h
(OECD Test guidelines 203)

Piperonal 120-57-0
static test EC50 - Daphnia magna (Daphnia) - 52 mg/l - 48 h
(OECD Test guideline202)

Vanillin 121-33-5
progress test LC50 Pimephales promelas (A small fish, stickleback): 57 mg/l; 96 h
Analytical observation: yes, OECD Test guidelines 203

Ethyl vanillin 121-32-4
LC50 - Pimephales promelas (A small fish, stickleback) - 87,6 mg/l - 96 h
Notes: (ECOTOX Data base)

ANISALDEHYDE 123-11-5
LC50 Leuciscus idus: 100 - 220 mg/l; 96 h
(External Safety Data Sheet)
static test LC50 Leuciscus idus: 148,32 mg/l; 96 h

BENZYL BENZOATE 120-51-4
semistatic test LC50 - Danio rerio (Barbus tetrazona) - 2,32 mg/l - 96 h

Toxic for Daphnia and other aquatic invertebrates

ETHANOL
EC50 Daphnia magna (Daphnia): 9.268 - 14.221 mg/l; 48 h
(International Uniform ChemicaL Information Database)

EUGENOL
EC50-Daphnia (waterflea)-1.13mg/l-48h (Eugenol)

Butyric acid 107-92-6
EC50 Daphnia magna (Water flea): 61,7 mg/l; 24 h (IUCLID)

Anise Alcohol 105-13-5
semistatic test EC50 - Daphnia magna (Daphnia) - > 100 mg/l - 48 h
(OECD Test guideline202)

Vanillin 121-33-5
static test EC50 Daphnia magna (Daphnia): 36,6 mg/l; 48 h
Analytical observation: yes OECD Test guideline202

Ethyl vanillin 121-32-4
EC50 - Daphnia magna (Daphnia) - 130 mg/l - 24 h
Notes: (External Safety Data Sheet)

ANISALDEHYDE 123-11-5
EC50 Daphnia (Cladocera): 83 mg/l; 48 h (External Safety Data Sheet)

BENZYL BENZOATE 120-51-4
static test EC50 - Daphnia magna (Daphnia) - 3,09 mg/l - 48 h
(OECD Test guideline202)

Algae/aquatic plants

ETHANOL
IC5 Scenedesmus quadricauda (green algae): 5.000 mg/l; 7 d (Literature)

Butyric acid 107-92-6
IC50 Desmodesmus subspicatus (green algae): 46,7 mg/l; 72 h (IUCLID)

Methyl Salicylate 119-36-8
static test EC50 - Desmodesmus subspicatus (green algae) - 27 mg/l - 72 h
(OECD Test Guideline 201)

Anise Alcohol 105-13-5
static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 141 mg/l - 72 h (OECD Test guideline 201)

Anise Alcohol 105-13-5
static test ErC50 - Chlorella vulgaris (freshwater algae) -
> 200 mg/l - 72 h (OECD Test guideline201)

Piperonal 120-57-0
static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 31 mg/l - 72 h (OECD Test guideline201)

Piperonal 120-57-0
static test NOEC - Pseudokirchneriella subcapitata (green algae) - 1,1 mg/l - 72 h (OECD Test guideline201)

Vanillin 121-33-5
static test ErC50 Pseudokirchneriella subcapitata (green algae): 120 mg/l; 72 h
Analytical observation: yes OECD Test guideline 201

Vanillin 121-33-5
static test NOEC Pseudokirchneriella subcapitata (green algae): 47 mg/l; 72 h
Analytical observation: yes OECD Test guideline201
ANISALDEHYDE 123-11-5
EC50 algae: 43 mg/l; 72 h (External Safety Data Sheet)

BENZYL BENZOATE 120-51-4
static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 0,475 mg/l - 72 h
(OECD Test guideline 201)

Бактерии

ETHANOL
EC5 Pseudomonas putida (Gram-negative bacterium): 6.500 mg/l; 16 h
(International Uniform ChemicaL Information Database)

Butyric acid 107-92-6
EC10 Pseudomonas putida: 51 mg/l; 18 h (IUCLID)

DIPROPYLENE GLYCOL 110-98-5
EC50 Pseudomonas putida: > 10.000 mg/l; 16 h (IUCLID)
Piperonal 120-57-0
static test EC50 - Activated sludge- > 100 mg/l - 28 d

Vanillin 121-33-5
IC50 microorganisms: 163 mg/l; 40 h (External Safety Data Sheet)

Benzyl Benzoate 120-51-4
static test EC50 - Activated sludge- > 10.000 mg/l - 3 h
(OECD Test guideline209)

Chronic (long-term) toxicity:

Note : no data available

Риби

Note : no data available

Shellfish

ETHANOL
semistatic test NOEC Daphnia magna (Daphnia): 9,6 mg/l; 9 d (ECHA)

Vanillin 121-33-5
semistatic test NOEC Daphnia magna (Daphnia): 5,9 mg/l; 21 d
Analytical observation: yes OECD Test guideline 211

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

Biodegradation : Expected

12.3. Bioaccumulation

Product:

Partition coefficient n-octanol/water (log Kow)

Note : no data available

Bioconcentration factor (BCF)

Notes : Not accumulated in biological environment

12.4. Mobility in soil

Product:

Known or predicted distribution in environmental components

Note : no data available

Surface tension		
Note	:	no data available

Adsorption/desorption		
Note	:	no data available

12.5. Results of PBT and vPvB assessment

This product doesn't contain substances considered highly persistent nor highly bioaccumulative vPvB.

This product doesn't contain substances considered persistent, bioaccumulative or toxic PBT

Product:

Results from PBT and vPvB assessment		
Notes	:	No information available

12.6. Other adverse effects

Product:

Biochemical oxygen demand (BOD)		
Value	:	No information available

Chemical oxygen demand (BOD)		
Value	:	No information available

Additional ecological information		
Notes	:	Do not wash in surface waters.

12.7. Additional information

Notes : Do not wash in surface waters.

13. Disposal Considerations

13.1. Waste treatment methods

13.1.1. Disposal of product/packing

Codes/designation of waste according to LoW: -

Product

Waste material must be disposed of in accordance with national and local regulations. Chemicals should be left in their original

containers. Do not mix with other waste. Unclean containers should be treated like the product itself.
See www.retrologistik.com for the way of returning chemicals and containers or contact us if you have any other questions.
Directive 2008/98/EC of the Council on waste information.

Contaminated packaging material	No data available.
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

Dispose of in an approved for the purpose facility according to local regulations.

13.1.3. Information on discharge in sewer systems

Do not permit the water used for washing or from the treating installations to enter the sewer systems, it may be necessary to collect all the washing water before treatment.

13.1.4. Other recommendations on waste disposal — No data available.

14. Information on transportation

See point 14.6.

14.1. UN proper shipping name

1197

14.2. UN proper shipping name

1197 EXTRACTS, FLAVOURING, LIQUID.

14.3. Transport hazard class(es)

1197 EXTRACTS, FLAVOURING, LIQUID.

14.4. Packing group

III

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user according to ADR

UN N	: UN 1197
Name and description/3.1.2/	: EXTRACTS, FLAVOURING, LIQUID.
Class /2.2/	: 3
Classification code /2.2/	: F1
Packing group/2.1.1.3/	: III
Labels /5.2.2./	:3
Special provisions /3.3/	:601
Limited and excepted Quantities	
- /3.4/	:5L
- /3.5.1.2/	:E1
Packaging	
Packing instructions /4.1.4/	: P001; IBC03; LP01; R001
Special packing provisions	:-
Mixed packing provisions /4.1.10/	: MP19
Portable tanks and bulk containers	
- Instructions /4.2.5.2/ /7.3.2/	:T2
- Special provisions /4.2.5.3/	:TP1
ADR tank	
- Tank code /4.3/	: LGBF
- Special provisions /4.3.5/ /6.8.4/	:-
Vehicle for tank carriage /9.1.1.2/	:FL
Transport category	
- (Tunnel restriction code) /1.1.3.6/ /8.6/	: 3; D/E
Special provisions for carriage	
- Packages /7.2.4/	: V12
- Bulk /7.3.3/	:-
- Loading, unloading and handling /7.5.11/:	-
- Operation /8.5/	:S2
Hazard identification No. /5.3.2.3/	: 30

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

Transport :

icon	**Class 3.3 – Highly flammable liquids, hazardous at high temperature**

Road transport

ADR	*Class 3, packing group III, UN 1197*
RID	*Class 3, packing group III, UN 1197*

Waterway transport

ADN	*Class 3, packing group III, UN 1197*

Maritime transport

IMDG	*Class 3, packing group III, UN 1197*

Air transport

IATA/CAO	*Class 3, packing group III, UN 1197*

15. Regulatory information

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

EC Regulations

Main Legislation concerning/relating to the danger of accidents **SEVESO III**
FLAMMABLE LIQUIDS

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

Limitations for use in the work environment	Take into account Directive 94/33/EU on the protection of young people at work.
Regulation 1005/2009/EC on substances that deplete ozone layer	not regulated
Other legal acts, restrictions, and prohibitive standards	No information availabe

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out for this product according to EC Regulation REACH No 1907/2006.

16. Other information

Shelf life 24 months from the date of manufacture

Specification of the changes :

Change of allergens and additional information about the product based on gas chromatographic analysis and latest changes.

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
Acute Tox 4.	Acute toxicity
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)
BCF	bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (the abstracts service compiles the most comprehensive list of chemical substances)
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
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
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
log KOW	n-octanol/water
MARPOL	International Convention on Prevention of Pollution from Ships (abbr. to "Marine Pollutant)
NLP	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)
Skin Irrit.	Skin irritation
vPvB	very Persistent and very Bioaccumulative
ЕО № List of EC	(EINECS, ELINCS and NLP-list) is the source for the seven-digit EC number, identifier of substances in the commercial 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
ЛОС	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
H226	Flammable liquid and vapors
H315	Causes skin irritation
H319	Causes serious eye irritation
EUH 208	Contains Eugenol, Anise Alcohol, Benzyl Benzoate. May cause an allergic reaction.
	List of instructions for safe treatment, used in the safety document
P102	Keep out of reach of children
P210	Avoid exposing to heat.
P264	Thoroughly wash hands after handling.
P273	Avoid release to the environment
P280	Use protective gloves/protective clothing/protective goggles/protective facial mask
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician .
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.
P302 + P352	IF ON SKIN: Wash thoroughly with water/...

P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P403 + P235	Store in a well ventilated place. Keep cool.
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.

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

Due to the many factors beyond our control 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: Органичен екстракт от Ванилия / VANILLA PLANIFOLIA FRUIT EXTRACT

	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*	*18,0*	-	*18,0*
4	*BENZYL ALCOHOL*	*H332; H302*	*100-51-6*	*202-859-9*	-	-	-
5	*BENZYL BENZOATE*	*H302*	*120-51-4*	*204-402-9*	*23,1*	-	*23,1*
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*	*3,0*	-	*3,0*
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*	-	-	-
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 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