



TECHNICAL SHEET

Greek Oregano Organic Essential Oil

PRODUCT DESCRIPTION	PHYSICO-CHEMICAL DATA
Botanical name : Origanum vulgare INCI name : Origanum vulgare oil Quality : 100% Pure and Natural	Specific gravity : 0.960-0.966 Refractive index : ± 0.0003 Optical rotation at 20°C : n/a Flash point : 63°C Solubility : Soluble in alcohols and fixed oils; Insoluble in water

DESCRIPTION	MANUFACTURING DETAILS
Odour : Spicy, Herbal Note classification : Top to middle Note Appearance : Clear, Mobile Liquid Colour : Light Yellow to Dark Yellow	Flower oil parts used : Aerial parts of flowering plant Extraction Method : Steam Distilled Essential Oil Cultivation : Certified organic

LEGISLATION	STABILITY AND STORAGE
CAS-No : 8007-11-2 EINECS : 281-670-3	Keep in tightly closed container in a cool and dry place from 15°C (59°F) to 22°C (71°F). Avoid exposure to light. When stored for more than 24 months, quality should be checked before use.



vessel
essential oils

MSDS Oregano Oil

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Oregano Oil

Brand : Vessel Essential Oils

CAS-No. : 8007-11-2

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

1.4 Company : Vessel Essential Oils

1.5 Farmakeika Neo Risio

1.6 Telephone : +30 2310 463719

1.7 Fax :

1.8 E-mail address : info@vessel.gr

1.9 Emergency telephone number

Emergency Phone # : +30 2310 463719

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4), H227

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram none

Signal word Warning

Hazard statement(s)
H227 Combustible liquid.

Precautionary statement(s)

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

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P330 Rinse mouth.

P331 Do NOT induce vomiting.

P302+P352 If on skin: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.



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P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No. : 8007-11-2

Hazardous components

Component	Classification	Concentration
Oils, oregano	Flam. Liq. 4; H227	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

Supply fresh air.

Seek immediate medical advice.

Provide oxygen treatment if affected person has difficulty breathing.

If experiencing respiratory symptoms: Call a poison center/doctor.

In case of unconsciousness place patient stably in side position for transportation.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Consult a doctor.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Breathing difficulty

Coughing

Causes eye irritation.

Causes skin irritation.

Gastric or intestinal disorders when ingested.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed or in case of vomiting, danger of entering the lungs.

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary edema.

If medical advice is needed, have product container or label at hand.



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5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture

Combustible liquid.

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary. Wear fully protective suit.

5.4 Further information

Eliminate all ignition sources if safe to do so.

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid splashes or spray in enclosed areas. Avoid contact with the eyes and skin. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep containers away from extreme heat, ignition sources or open flame.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Oils, oregano	8007-11-2	TWA	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | |
|--|-------------------------------|
| a) Appearance | Form: clear, yellow liquid |
| b) Odour | No data available |
| c) Odour Threshold | No data available |
| d) pH | No data available |
| e) Melting point/freezing point | No data available |
| f) Initial boiling point and boiling range | Not determined |
| g) Flash point | 63 °C (145.4 °F) - closed cup |



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h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	0.95 g/cm ³ at 25 °C (77 °F)
n) Water solubility	No data available
o) Partition coefficient: n- octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Used empty containers may contain product gases which form explosive mixtures with air. Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized. Toxic fumes may be released if heated above the decomposition point. Reacts with oxidizing agents

10.4 Conditions to avoid

Heat, flames and sparks. Store away from oxidizing agents.

10.5 Incompatible materials

Oxidizing agents.

10.6 Hazardous decomposition products

In the event of fire only: Carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Toxic in contact with skin.

Harmful if swallowed.

LD50 Oral - Rat – 1,850 mg/kg

LD50 Dermal - Rabbit - > 320 mg/kg



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Skin corrosion/irritation

Skin - Rabbit

Result: Mild skin irritation

Serious eye damage/eye irritation

Causes eye irritation.

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

May be fatal if swallowed and enters airways.

Additional Information

Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects



No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

UN Number: N/A

UN Proper shipping name: N/A

Transportation hazard classes

Road (U.S. DOT): Not dangerous goods

Air (IATA): Not dangerous goods

Sea (IMDG): Not dangerous goods

Packing group: N/A

Proper shipping name: Not regulated

Poison Inhalation Hazard: No

Class: NONE

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Oils, oregano

CAS-No.
8007-11-2

Revision Date
2018-08-11

New Jersey Right To Know Components

Oils, oregano

CAS-No.
8007-11-2

Revision Date
2018-08-11

California Prop. 65 Components



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This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Flam. Liq. 4 H227 Combustible liquid.

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways

HMIS Rating

Health hazard: 1

Chronic Health Hazard:

Flammability: 2

Physical Hazard 0

NFPA Rating

Health hazard: 0

Fire Hazard: 2

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Vessel Essential Oils and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

12/10/2023



DATE: July 2023

PRODUCT DESCRIPTION

Product name :	Oregano Essential Oil
Product Type :	Essential oil
Label Name :	Greek Oregano Organic Essential Oil
BATCH No :	E1001160
Date of Production :	July 2023
Date of Expiration :	July 2028
Origin :	Greece

TECHNICAL INFORMATION

<u>Organoleptic</u>	<u>Result</u>
Aroma :	Conforms to standard
Appearance :	Conforms to standard
Color :	Conforms to standard

PHSICAL CONSTANTS AT 20° C

<u>Analysis</u>	<u>Method</u>	<u>Result</u>
Refractive Index :	USP <831>	1.501
Specific Gravity :	USP<841>	0.962
Optical Rotation :	USP <781>	+0.12°

ANALYSIS METHOD :

Gas chromatography (GC/FID) area % according to normalization method.



DATE: July 2023

GC ANALYSIS

<u>Compounds</u>	<u>CAS No</u>	<u>%</u>	<u>Chemical Family</u>
Alpha-Pinene	80-56-8	0.26	Monoterpene
Beta-Myrcene	123-35-3	0.81	Monoterpene
Alpha-Terpinene	99-86-5	0.61	Monoterpene
Alpha-thujene	2867-05-2	0.52	Monoterpene
Alpha-Phellandrene	99-83-2	0.13	Monoterpene
Alpha-Terpinene	99-86-5	0.61	Monoterpene
Beta-Phellandrene	555-10-2	0.12	Monoterpene
Gamma-Terpinene	99-85-4	2.41	Monoterpene
Para-Cymene	99-87-6	2.06	Monoterpene
Linalool	78-70-6	4.51	Monoterpenic alcohol
Trans-Beta Caryophyllene	87-44-5	0.67	Sesquiterpene
Terpinen-4-ol	562-74-3	0.37	Monoterpenic alcohol
Thymol	89-83-8	1.02	Monoterpenic phenol
Carvacrol	499-75-2	82.10	Monoterpenic phenol
Borneol	507-70-0	0.42	Monoterpenic phenol
Beta-Bisabolene	495-61-4	0.95	Sesquiterpene