



TECHNICAL DATA SHEET

Eucalyptus Organic Essential Oil

PRODUCT DESCRIPTION	PHYSICO-CHEMICAL DATA
Botanical name : Eucalyptus globulus INCI name : Eucalyptus Globulus Leaf Oil Quality : 100% Pure and Natural	Specific gravity : 0.906-0.920 Refractive index : 1.458-1.465 Optical rotation at 20°C : 0° to 10° Solubility : Soluble in alcohols and fixed oils; Insoluble in water

DESCRIPTION	MANUFACTURING DETAILS
Odour : Medicinal, clear, refreshing, cineolic, slightly camphoreous, earthy Note classification : Top to middle Note Appearance : Clear, Mobile Liquid Colour : Colorless to Pale Yellow	Flower oil parts used : Leaves Extraction Method : Steam Distilled Essential Oil Cultivation : Certified organic

LEGISLATION	STABILITY AND STORAGE
CAS-No : 8000-48-4 EINECS : 283-406-2	Keep in tightly closed container in a cool and dry place from 15°C (59°F) to 16°C (60.8°F). Avoid exposure to light. When stored for more than 24 months, quality should be checked before use.



vessel
essential oils

MSDS Eucalyptus Globulus Oil

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Eucalyptus Globulus Oil

Brand : Vessel Essential Oils

CAS-No. : 8000-48-4

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

Company : Vessel Essential Oils
Farmakeika Neo Risio

Telephone : +30 2310 463719

Fax :

E-mail address : info@vessel.gr

1.4 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.
P280 : Wear protective gloves/ protective clothing/ eye protection/ face protection.

P370 + P378 : In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403 + P235 : Store in a well-ventilated place. Keep cool.
P501 : Dispose of contents/ container to an approved waste disposal plant.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No. : 8000-48-4



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Hazardous components

Component	Classification	Concentration
Oils, Eucalyptus Oil		
	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

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

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

In case of eye contact

Flush eyes with water as a precaution.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

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

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

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 vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours 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.



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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 vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up 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.

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
Eucalyptus Oil	8000-48-4	TWA	10.000000 mg/m ³	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m ³	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, 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	204 °C (404.6 °F) - lit.
g) Flash point	67 °C (152.6 °F) - closed cup
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	0.848 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

No data available

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Inhalation: In high concentrations, vapors may irritate throat and respiratory system and cause coughing.

Skin corrosion/irritation

No specific health warnings noted.

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

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



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Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

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 Toxicity

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



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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, Eucalyptus	CAS-No. 8000-48-4	Revision Date 2019-08-11
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New Jersey Right To Know Components

Oils, Eucalyptus	CAS-No. 8000-48-4	Revision Date 2019-08-11
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California Prop. 65 Components

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



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16. OTHER INFORMATION

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

Flam. Liq. H227	Flammable liquids Combustible liquid.
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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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05/09/2023



DATE: 30th June 2023

PRODUCT DESCRIPTION

Product name :	Eucalyptus Essential Oil
Product Type :	Essential oil
Label Name :	Eucalyptus Globulus Organic Essential Oil from Australia
BATCH No :	E1001493
Date of Production :	June 2023
Date of Expiration :	June 2028
Origin :	Australia

TECHNICAL INFORMATION

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

PHYSICAL CONSTANTS AT 20° C

<u>Analysis</u>	<u>Method</u>	<u>Result</u>
Refractive Index :	USP <831>	1.460
Specific Gravity :	USP<841>	0.913
Optical Rotation :	USP <781>	+2.3°

ANALYSIS METHOD :

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



DATE: 30th June 2023

GC ANALYSIS

Compounds	CAS No	%	<u>Chemical Family</u>
Alpha-Pinene	80-56-8	2.40	Monoterpene
Beta-Pinene	127-91-3	0.50	Monoterpene
Alpha-Phellandrene	99-83-2	0.60	Monoterpene
Para-Cymene	99-87-6	3.50	Monoterpene
Limonene	5989-27-5	3.80	Monoterpene
1,8-Cineole	470-82-6	83.60	Monoterpenic Ether
Gamma-Terpinene	99-85-4	4.30	Monoterpene