



## TECHNICAL DATA SHEET

# Eucalyptus Organic Essential Oil

<b>PRODUCT DESCRIPTION</b>	<b>PHYSICO-CHEMICAL DATA</b>
Botanical name : Eucalyptus Radiata INCI name : Eucalyptus Radiata leaf/stem oil Quality : 100% Pure and Natural	Specific gravity : 0.905-0.925 Refractive index : 1.455-1.475 Optical rotation at 20°C : -5° to 10° Flash point : 67°C Solubility : Soluble in alcohols and fixed oils; <b>Insoluble in water</b>
<b>DESCRIPTION</b>	<b>MANUFACTURING DETAILS</b>
Odour : Fresh, eucalyptol, medicinal and characteristic Note classification : Top to middle Note Appearance : Clear, Viscous Liquid Colour : Colorless to Pale Yellow	Flower oil parts used : Leaves Extraction Method : Steam Distilled Essential Oil Cultivation : Certified organic
<b>LEGISLATION</b>	<b>STABILITY AND STORAGE</b>
CAS-No : 92201-64-4 EINECS : 295-995-3	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 Eucalyptus Radiata Oil

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name : Eucalyptus Radiata Oil

Brand : Vessel Essential Oils

CAS-No. : 92201-64-4

#### 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](mailto:info@vessel.gr)

#### 1.4 Emergency telephone number

Emergency Phone # : +30 2310 463719

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### 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

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

CAS-No. : 92201-64-4



**Hazardous components**

Component	Classification	Concentration
<b>Oils, Eucalyptus Oil</b>		
	Flam. Liq. 4; H227	<= 100 %

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

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**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

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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**

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.

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**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.



**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.

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**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

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Components with workplace control parameters**

Component	CAS-No.	Value	Control parameters	Basis
Eucalyptus Oil	92201-64-4	TWA	10.000000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m <sup>3</sup>	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	0.900 g/cm <sup>3</sup> 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

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## 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

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 4,250 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - > 5,000 mg/kg

No data available

#### Skin corrosion/irritation

Skin - Rabbit

Result: Mild skin irritation

#### 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

**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.

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**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

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**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.

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**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, Eucalyptus

CAS-No.  
92201-64-4

Revision Date 2019-08-11

### New Jersey Right To Know Components

Oils, Eucalyptus

CAS-No.  
92201-64-4

Revision Date  
2019-08-11

### 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.

## 16. OTHER INFORMATION

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

Flam. Liq.                      Flammable liquids  
H227                              Combustible liquid.

### 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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### MSDS Eucalyptus Radiata Oil

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.

05/09/2023



DATE: September 2023

**PRODUCT DESCRIPTION**

<b>Product name :</b> <b>Product Type :</b> <b>Label Name :</b> <b>BATCH No :</b> <b>Date of Production :</b> <b>Date of Expiration :</b> <b>Origin :</b>	Eucalyptus Essential Oil Essential oil Eucalyptus Organic Essential Oil E1001488 September 2023 September 2028 Australia
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**TECHNICAL INFORMATION**

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

**PHYSICAL CONSTANTS AT 20° C**

<b><u>Analysis</u></b>	<b><u>Method</u></b>	<b><u>Result</u></b>
Refractive Index :	USP <831>	1.464
Specific Gravity :	USP<841>	0.916
Optical Rotation :	USP <781>	+2.1°

**ANALYSIS METHOD :**

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



DATE: September 2023

**GC ANALYSIS**

<b>Compounds</b>	<b>CAS No</b>	<b>%</b>	<b><u>Chemical Family</u></b>
Alpha-Pinene	80-56-8	16.50	Monoterpene
Limonene	5989-27-5	5.31	Monoterpene
Aromadendrene	489-39-4	5.31	Sesquiterpene
p-Cymene	99-87-6	1.54	Monoterpene
trans-Pinocarveol	1674-08-4	0.96	Monoterpenoid
Globulol	489-41-8	0.68	Sesquiterpenoid
1,8-Cineol	470-82-6	58.50	Monoterpenic Ether