



# Essential Oils, Skincare & Aromatherapy Products

## SAFETY DATA SHEET

### **1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

PRODUCT NAME: Eucalyptus Essential Oil

SUPPLIER: Celtic Tree Oils, Carlingford, Co. Louth, Ireland, A91 D86V

PRODUCT NUMBER: 16

CAS NUMBER: 8000-48-4/ 84625-32-1

EC NUMBER: 283-406-2

EINECS NUMBER.: 283-406-2

INCI: Eucalyptus Globulus Leaf Oil.

IDENTIFIED USES: Suitable for cosmetic and food flavouring purposes.

BIOLOGICAL DEFINITION: Eucalyptus Globulus Leaf Oil is the volatile oil obtained from the fresh leaves of the Eucalyptus, Eucalyptus globulus.

### **2: HAZARDS IDENTIFICATION**

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CAS: 8000-48-4/ 84625-32-1

EC: 283-406-2

CLASSIFICATION (EC No 1272/2008):

PHYSICAL HAZARDS:

Flam. Liq. 3 - H226

HEALTH HAZARDS:

Asp. Tox. 1 - H304

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

ENVIRONMENTAL HAZARDS:

Aquatic Chronic 2 - H411

### **LABEL ELEMENTS**

PICTOGRAM:



SIGNAL WORD:

DANGER

HAZARD STATEMENTS:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:	<p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</p> <p>P331 Do NOT induce vomiting.</p> <p>P391 Collect spillage.</p> <p>P262 Do not get in eyes, on skin, or on clothing.</p>
SUPPLEMENTARY PRECAUTIONARY STATEMENTS:	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground/ bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
PBT OR vPvB ACCORDING TO ANNEX XIII	This product does not contain any substances classified as PBT or vPvB.
ADVERSE EFFECTS ON HUMAN HEALTH	<p>The liquid may be irritating to skin.</p> <p>Fatal if swallowed.</p> <p>May cause skin sensitisation or allergic reactions in sensitive individuals.</p>
ADVERSE PHYSIO-CHEMICAL PROPERTIES	Flammable liquid and vapour.
CONTAINS:	1,8 cineole, d-Limonene, Alpha Pinene, Beta Pinene.

### **3: COMPOSITION/INFORMATION ON INGREDIENTS**

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#### **>80% 1,8 Cineol**

CAS NUMBER: 470-82-6

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 207-431-5

Flam. Liq. 3 - H226,  
Skin Sens. 1B - H317

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#### **≤ 10% d-Limonene**

CAS NUMBER: 5989-27-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 227-813-5

Flam. Liq. 3 - H226,  
Asp. Tox. 1 H304,  
Skin Irrit. 2 - H315,  
Skin Sens. 1 - H317,  
Aquatic Acute 1 - H400,  
Aquatic Chronic 1 - H410

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#### **≤ 6% para-Cymene**

CAS NUMBER: 99-87-6

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-796-7

Flam. Liq. 3 – H226,  
Asp. Tox. 1 – H304,  
Eye Irrit. 2 H319

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#### **≤ 9% alpha-Pinene**

CAS NUMBER: 80-56-8

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 201-291-9

Flam. Liq. 3 - H226,  
Skin Irrit. 2 - H315,  
Skin Sens. 1 - H317,  
Asp. Tox. 1 - H304,  
Aquatic Acute 1 - H400,  
Aquatic Chronic 1 - H410

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#### **≤ 3% alpha-Phellandrene**

CAS NUMBER: 99-83-2

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-792-5

Flam. Liq. 3 - H226,  
Asp. Tox. 1 - H304

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#### **≤ 6% p-mentha-1,4-diene**

CAS NUMBER: 99-85-4

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-794-6

Flam. Liq. 3 - H226,  
Asp. Tox. 1 - H304

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#### **≤ 2% 7-methyl-3-methylenoocta-1,6-diene (Myrcene)**

CAS NUMBER: 123-35-3

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 204-622-5

Flam. Liq. 3 - H226,  
Skin Irrit. 2 - H315,  
Eye Irrit. 2 - H319  
Asp. Tox. 1 - H304,  
Aquatic Acute 1 H400,  
Aquatic Chronic 1 H410

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**≤ 2% p-menth-1-en-8-ol**

CAS NUMBER: 99-55-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-680-6

Skin Irrit. 2 - H315,

Eye Irrit. 2 - H319

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**≤ 1.5% beta-Pinene**

CAS NUMBER: 127-91-3

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 204-872-5

Flam. Liq. 3 - H226,

Skin Irrit. 2 - H315,

Skin Sens. 1 - H317,

Asp. Tox. 1 - H304,

Aquatic Acute 1 H400,

Aquatic Chronic 1 H410

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The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.**4: FIRST AID MEASURES**

INHALATION:

Remove person to fresh air and keep comfortable for breathing. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.

INGESTION:

Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.

SKIN CONTACT:

Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

EYE CONTACT:

Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

MOST IMPORTANT SYMPTOMS AND EFFECTS,  
BOTH ACUTE AND DELAYED

INHALATION: May be fatal if swallowed and enters airways.

SKIN CONTACT: May cause an allergic skin reaction.

NOTES FOR THE DOCTOR:

Treat symptomatically.

**5: FIREFIGHTING MEASURES**

EXTINGUISHING MEDIA RECOMMENDED:

Carbon Dioxide (CO<sub>2</sub>), dry chemical, Foam, Water Spray.

UNSUITABLE EXTINGUISHING MEDIA:

Do not use water jet as an extinguisher, as this will spread the fire

SPECIAL MEASURES:

Burning can produce irritating, toxic and obnoxious fumes.

ADVICE FOR FIREFIGHTERS:

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## **6: ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS:	Provide adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours. Wear protective clothing and gloves.
FOR EMERGENCY RESPONDERS	Wear an appropriate NIOSH / MSHA approved respirator if mist or vapour is generated.
ENVIRONMENT PRECAUTIONS:	Do not discharge into drains or watercourses or onto the ground.
CLEANING UP METHODS FOR SPILLAGES:	Absorb with liquid binding material (e.g. sand, diatomaceous earth, acid or universal binding agents). Collect in closed and suitable containers for disposal.
REFERENCE TO OTHER SECTIONS	For personal protection, see Section 8. For waste disposal, see Section 13.

## **7: HANDLING AND STORAGE**

USAGE PRECAUTIONS:	Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. Provide adequate ventilation. Keep away from heat, sparks and open flame.
OCCUPATIONAL HYGIENE:	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.
STORAGE PRECAUTIONS:	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

## **8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **CONTROL PARAMETERS:**

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#### **1, 8 cineole (CAS: 470-82-6)**

DNEL	Workers - Dermal; Long term systemic effects: 2 mg/kg General population - Oral; Long term systemic effects: 600 mg/kg General population - Dermal; Long term systemic effects: 1 mg/kg General population - Inhalation; Long term systemic effects: 1.74 mg/m <sup>3</sup>
PNEC	- STP; 10 mg/l - Soil; 0.2 mg/kg - Intermittent release; 0.57 mg/l - Fresh water; 0.057 mg/l - Marine water; 0.0057 mg/l - Sediment (Freshwater); 0.06732 mg/kg - Sediment (Marine water); 0.00673 mg/kg

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**Alpha Pinene (CAS: 80-56-8)**

DNEL

Workers - Inhalation; Long term systemic effects: 5.98 mg/m<sup>3</sup>  
General population - Oral; Long term systemic effects: 0.31 mg/kg  
General population - Inhalation; Long term systemic effects: 1.06 mg/m<sup>3</sup>

PNEC

- STP; 3.26 mg/l  
- Soil; 0.539 mg/kg  
- Fresh water; 0.004 mg/l  
- Marine water; 0.0004 mg/l  
- Sediment (Freshwater); 1.033 mg/kg  
- Sediment (Marine water); 0.103 mg/kg

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**7-methyl-3-methyleneocta-1,6-diene (CAS: 123-35-3)**

DNEL

Workers - Dermal; Long term systemic effects: 0.83 mg/kg  
Workers - Inhalation; Long term systemic effects: 5.83 mg/m<sup>3</sup>  
General population - Dermal; Long term systemic effects: 0.42 mg/kg  
General population - Inhalation; Long term systemic effects: 1.25 mg/m

PNEC

- STP; 0.2 mg/l  
- Soil; 1.015 mg/kg  
- Fresh water; 0.00028 mg/l  
- Marine water; 0.0008 mg/l  
- Sediment (Freshwater); 5.022 mg/kg  
- Sediment (Marine water); 0.502 mg/kg

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## PROTECTIVE EQUIPMENT:



PROCESS CONDITIONS

APPROPRIATE ENGINEERING CONTROLS:

EYE/FACE PROTECTION:

HAND PROTECTION:

OTHER SKIN AND BODY PROTECTION:

HYGIENE MEASURES:

RESPIRATORY PROTECTION:

ENVIRONMENTAL EXPOSURE CONTROLS:

No additional data available.

Provide adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Wear approved face protection.

Chemical resistant gloves required.

Wear suitable protective clothing to prevent heat.

Wear apron or protective clothing in case of contact.

Avoid contact with skin and eyes.

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

Generally unnecessary in a well-ventilated area. If ventilation is insufficient, respiratory protection must be worn.

Avoid discharging into drains.

## **9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE:	Clear liquid
COLOUR:	Colourless to pale yellow.
ODOUR:	Fresh, aromatic, cineolic
FLASH POINT °C:	45.5 – 46.5
SPECIFIC GRAVITY @ 20°C:	~0.915
REFRACTIVE INDEX @ 20°C:	1.452
MELTING POINT °C:	-20 to +5
BOILING POINT (°C)	153 - 184
VAPOUR PRESSURE	ca 262 Pa @ 25°C
SOLUBILITY IN WATER @20°C	No additional data available.
AUTO-IGNITION TEMPERATURE (°C)	270
OTHER INFORMATION:	Partition coefficient Eucalyptus is a natural complex substance. It is a mixture of several components, but three of them represent 90% of that mixture. LogP of each of these three components were calculated with the In Silico Algorithm For Environmental Risk Assessment toolbox, multilinear V.1.1.1. The range of the LogP varies as below. log Pow: 2.84 to 4.42

## **10: STABILITY AND REACTIVITY**

REACTIVITY:	The substance is stable under normal storage and handling conditions.
CHEMICAL STABILITY	Stable under normal temperature conditions.
POSSIBLE HAZARDOUS REACTIONS	None known
CONDITIONS TO AVOID	Avoid heat, sparks and other sources of ignition.
INCOMPATIBLE MATERIALS	Strong oxidising agents. Strong reducing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Combustion produces carbon dioxide, carbon monoxide and smoke.

## **11: TOXICOLOGICAL INFORMATION**

### ACUTE TOXICITY

Not classified.  
Acute toxicity - oral  
Notes (oral LD<sub>50</sub>)  
REACH dossier information. The oral LD50 for Eucalyptus oil is higher than 2000 mg/kg bw in mice therefore it is not classified according to the Annex VI to the Directive 67/548/EEC and the CLP Regulation (EC) No (1272-2008).  
Acute toxicity - dermal  
Notes (dermal LD<sub>50</sub>)  
REACH dossier information. The dermal LD50 for Eucalyptus oil is higher than 5000 mg/kg bw in rabbits therefore it is not classified according to the Annex VI to the Directive 67/548/EEC and the CLP Regulation (EC) No (1272-2008).  
Causes skin irritation.  
Not classified.  
May cause an allergic skin reaction.  
Not classified.  
Not classified.  
Not classified.  
Not classified.  
Not classified.  
Not classified.  
May be fatal if swallowed and enters airways.  
No additional data available.  
No additional data available.

### SKIN CORROSION / IRRITATION

### SERIOUS EYE DAMAGE / IRRITATION

### RESPIRATORY OR SKIN SENSITISATION

### GERM CELL MUTAGENICITY

### CARCINOGENICITY

### REPRODUCTIVE TOXICITY

### STOT-SINGLE EXPOSURE

### STOT-REPEATED EXPOSURE

### ASPIRATION HAZARD

### PHOTO-TOXICITY

### OTHER INFORMATION

## **12: ECOLOGICAL INFORMATION**

### ECOTOXICITY:

### PERSISTENCE AND DEGRADABILITY:

### BIOACCUMULATIVE POTENTIAL:

Toxic to aquatic life with long lasting effects.  
The substance is readily biodegradable  
Eucalyptus is a natural complex substance. It is a mixture of several components, but three of them represent 90% of that mixture. LogP of each of these three components were calculated with the In Silico Algorithm For Environmental Risk Assessment toolbox, multilinear V.1.1. The range of the LogP varies as below. log Pow: 2.84 to 4.42  
No additional data available  
This product does not contain any substances classified as PBT or vPvB.  
No additional data available.

### MOBILITY IN SOIL:

### RESULTS OF PBT AND vPvB ASSESSMENT:

### PRECAUTIONS:

## **13: DISPOSAL CONSIDERATIONS**

### DISPOSAL METHODS:

Recycling is preferred to disposal or burning. Disposal must be made according to official regulations. Must not be disposed together with household waste.



#### **14: TRANSPORT INFORMATION**

UN No. ROAD: 1169  
UN No. SEA: 1169  
UN No. AIR: 1169  
PROPER SHIPPING NAME: EXTRACTS, AROMATIC, LIQUID

#### **TRANSPORT HAZARD CLASS(ES):**

ADR/RID/ADN CLASS: 3  
ADR/RID CLASSIFICATION CODE: F1  
IMDG CLASS 3  
ICAO CLASS/DIVISION 3



#### **PACKING GROUP:**

ADR/RID/ADN PACKING GROUP III  
IMDG PACKING GROUP III  
ICAO PACKING GROUP III  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT: Environmentally Hazardous Substance/Marine Pollutant



#### **SPECIAL PRECAUTIONS FOR USER**

EMS: F-E, S-D  
ADR TRANSPORT CATEGORY: 3  
EMERGENCY ACTION CODE: 3Y  
HAZARD IDENTIFICATION NUMBER (ADR/RID): 30  
TUNNEL RESTRICTION CODE: (D/E)  
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE: Packed and transferred according to transport regulations.

#### **15: REGULATORY INFORMATION**

STATUTORY INSTRUMENTS: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

EU LEGISLATION: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

GUIDANCE: Workplace Exposure Limits EH40. CHIP for everyone HSG (108).

## **16: OTHER INFORMATION**

HAZARD AND/OR PRECAUTIONARY  
STATEMENTS IN FULL

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

### Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.  
Retest after 6 months.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.