

# SAFETY DATA SHEET

In accordance with REACH Regulation (EC) No. 1907/2006

<b>Product</b>	Bergamot (Furocoumarin Free) Essential Oil (COSMOS Natural)
<b>Version</b>	1

## Section 1. Identification of the substance or the mixture and of the supplier

### 1.1 Product Identifier

<b>Product identifier</b>	Bergamot (Furocoumarin Free) Essential Oil (COSMOS Natural) (Contains: Linalool, Linalyl acetate, d-Limonene, p-Mentha-1,4-diene)
<b>Other identifiers</b>	None

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

<b>Product uses</b>	Flavours, Fragrances, Food Use, Cosmetics
---------------------	---

### 1.3 Details of the supplier of the safety data sheet

<b>Company name</b>	Ecoflores
<b>Website</b>	ecoflores.eu
<b>Contact</b>	Regulatory Affairs / product safety contact

### 1.4 Emergency telephone number

<b>Emergency phone</b>	112 / local emergency medical service or poison information centre
------------------------	--

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification under Regulation (EC) No 1272/2008

Class and category of danger	Hazard statements
Flammable Liquid, Hazard Category 3	H226 - Flammable liquid and vapour.
Skin Corrosion / Irritation Category 2	H315 - Causes skin irritation.
Eye Damage / Irritation Category 2	H319 - Causes serious eye irritation.
Sensitization - Skin Category 1	H317 - May cause an allergic skin reaction.
Toxic to Reproduction Category 2	H361 - Suspected of damaging fertility or the unborn child (exposure route).
Hazardous to the Aquatic Environment - Acute Hazard Category 1	H400 - Very toxic to aquatic life.
Hazardous to the Aquatic Environment - Long-term Hazard Category 2	H411 - Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

<b>Signal word</b>	Warning
<b>Hazard statements</b>	H226, H315, H317, H319, H361, H400, H411
<b>Supplemental information</b>	EUH208 - Contains Citral, Eucalyptol, alpha-Pinene, beta-Pinene. May produce an allergic reaction.

### Precautionary statements:

Code / statement
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical, ventilating and lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing vapour or dust.

Code / statement
P264 - Wash hands and other contacted skin thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/eye protection/face protection.
P303/361/353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P305/351/338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308/313 - IF exposed or concerned: Get medical advice/attention.
P333/313 - If skin irritation or rash occurs: Get medical advice/attention.
P337/313 - If eye irritation persists: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P370/378 - In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
P391 - Collect spillage.
P403/235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to approved disposal site, in accordance with local regulations.

### Pictograms:



### 2.3 Other hazards

<b>Other hazards</b>	Sensitisers declared on a CLP Hazard Label: Citral, Eucalyptol, alpha-Pinene, beta-Pinene
----------------------	---

## Section 3. Composition / information on ingredients

### 3.2 Mixtures

#### Contains:

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008	Specific Conc. Limits, M-factors and ATEs
Linalyl acetate	115-95-7	204-116-4		20-<50%	Skin Irrit. 2-Skin Sens. 1B; H315-H317,-	
d-Limonene	5989-27-5	227-813-5		20-<50%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 3; H226-H304-H315-H317-H400-H412,-	M = 1
Linalool	78-70-6	201-134-4		10-<20%	Skin Irrit. 2-Eye Irrit. 2-Skin Sens. 1B; H315-H317-H319,-	oral: ATE = 2790 mg/kg bw
p-Mentha-1,4-diene	99-85-4	202-794-6		5-<10%	Flam. Liq. 3-Repr. 2-Asp. Tox 1-Aquatic Chronic 2; H226-H304-H361-H411,-	oral: ATE = 3650 mg/kg bw
beta-Pinene	127-91-3	204-872-5		1-<5%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1; H226-H304-H315-H317-H410,-	M = 1-M = 1
p-Cymene	99-87-6	202-796-7		0.1-<1%	Flam. Liq. 3-Acute Tox. 3-Repr. 2-Asp. Tox 1-Aquatic Chronic 2; H226-H304-H331-H361-H411,-	inhalation: ATE = 9.7 mg/l (vapour)-oral: ATE = 4750 mg/kg bw
Myrcene	123-35-3	204-622-5		0.1-<1%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 2; H226-H304-H315-H319-H400-H411,-	M = 1
Eucalyptol	470-82-6	207-431-5		0.1-<1%	Flam. Liq. 3-Skin Sens. 1B; H226-H317,-	oral: ATE = 2480 mg/kg bw
alpha-Pinene	80-56-8	201-291-9		0.1-<1%	Flam. Liq. 3-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1; H226-H302-H304-H315-H317-H410,-	M = 1-M = 1-oral: ATE = 500 mg/kg bw
Citral	5392-40-5	226-394-6		0.1-<1%	Skin Irrit. 2-Eye Irrit. 2-Skin Sens. 1; H315-H317-H319,-	

Substances with Community workplace exposure limits	Not Applicable
Substances that are endocrine disruptors according to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, greater than 0.1%	Not Applicable

Substances that are persistent, bioaccumulative and toxic or very persistent and very bioaccumulative, greater than 0.1%

Not Applicable

## Section 4. First-aid measures

### 4.1 Description of first aid measures

<b>Inhalation</b>	Remove from exposure site to fresh air, keep at rest, and obtain medical attention.
<b>Eye exposure</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Skin exposure</b>	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
<b>Ingestion</b>	Rinse mouth with water and obtain medical attention.

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

- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- Suspected of damaging fertility or the unborn child (exposure route).

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

None expected, see Section 4.1 for further information.

## Section 5. Firefighting measures

### 5.1 Extinguishing media

**Suitable media** Carbon dioxide, Dry chemical, Foam.

### 5.2 Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

### 5.3 Advice for fire fighters

In case of insufficient ventilation, wear suitable respiratory equipment.

## Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.
6.2 Environmental precautions	Keep away from drains, surface and ground water, and soil.
6.3 Methods and material for containment and cleaning up	Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.
6.4 Reference to other sections	Also refer to sections 8 and 13.

## Section 7. Handling and storage

7.1 Precautions for safe handling	Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
7.2 Conditions for safe storage, including any incompatibilities	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
7.3 Specific end use(s)	Flavours, Fragrances, Food Use, Cosmetics: Use in accordance with good manufacturing and industrial hygiene practices.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

**Workplace exposure limits** Not Applicable

## 8.2 Exposure Controls

<b>Eye / Skin Protection</b>	Wear protective gloves/eye protection/face protection.
<b>Respiratory Protection</b>	Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material. Also refer to Sections 2 and 7.

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Property	Value
Physical State/Colour	Liquid, clear to pale yellow to yellow
Odour	Characteristic; citrus - bergamot
Odour threshold	Not determined
Melting point / freezing point	Not determined
Boiling point or initial boiling point and boiling range	Not determined
Flammability	Not determined
Lower and upper explosion limit	Not determined
Flash point	57 °C
Auto-ignition temperature	Not determined
Decomposition temperature	Not relevant
pH	Not determined
Kinematic viscosity	Not determined
Solubility	Not determined
Partition coefficient: n-octanol/water (log value)	Not determined
Vapour pressure	Not determined
Density and/or relative density	0.8638 - 0.8838
Relative vapour density	Not determined
Particle characteristics	Not determined

### 9.2 Other information

None available

## Section 10. Stability and reactivity

10.1 Reactivity	Presents no significant reactivity hazard, by itself or in contact with water.
10.2 Chemical stability	Good stability under normal storage conditions.
10.3 Possibility of hazardous reactions	Not expected under normal conditions of use.
10.4 Conditions to avoid	Avoid extreme heat.
10.5 Incompatible materials	Avoid contact with strong acids, alkalis or oxidising agents.
10.6 Hazardous decomposition products	Not expected.

## Section 11. Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP).

Endpoint	Information
Acute Toxicity	Based on available data the classification criteria are not met.
Acute Toxicity Oral	>5000
Acute Toxicity Dermal	Not Applicable
Acute Toxicity Inhalation	Not Available
Skin corrosion/irritation	Skin Corrosion / Irritation Category 2
Serious eye damage/irritation	Eye Damage / Irritation Category 2

Endpoint	Information
Respiratory or skin sensitisation	Sensitization - Skin Category 1
Germ cell mutagenicity	Based on available data the classification criteria are not met.
Carcinogenicity	Based on available data the classification criteria are not met.
Reproductive toxicity	Toxic to Reproduction Category 2
STOT-single exposure	Based on available data the classification criteria are not met.
STOT-repeated exposure	Based on available data the classification criteria are not met.
Aspiration hazard	Based on available data the classification criteria are not met.

### Information about hazardous ingredients in the mixture

Ingredient	CAS	EC	LD50/ATE Oral (mg/kg)	LD50/ATE Dermal (mg/kg)	LC50/ATE Inhalation	Route
p-Cymene	99-87-6	202-796-7	4750	Not available	9.7	Vapour mg/l

Refer to Sections 2 and 3 for additional information.

### 11.2 Information on other hazards

Not Applicable

## Section 12. Ecological information

12.1 Toxicity	Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
12.2 Persistence and degradability	Not available
12.3 Bioaccumulative potential	Not available
12.4 Mobility in soil	Not available
12.5 Results of PBT and vPvB assessment	This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.
12.6 Endocrine disrupting properties	Not Applicable
12.7 Other adverse effects	Not available

## Section 13. Disposal considerations

<b>13.1 Waste treatment methods</b>	Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.
-------------------------------------	---

## Section 14. Transport information

Regulation	14.1 UN number or ID number	14.2 UN Proper Shipping Name	14.3 Transport hazard class(es)	Sub Risk	14.4 Packing Group
UN Model Regulations	UN1993	FLAMMABLE LIQUID, N.O.S. (d-Limonene)	3	-	III
IMDG	UN1993	FLAMMABLE LIQUID, N.O.S. (d-Limonene, p-Mentha-1,4-diene, beta-Pinene) MARINE POLLUTANT	3	-	III
ADR, RID, ADN	UN1993	FLAMMABLE LIQUID, N.O.S. (d-Limonene, p-Mentha-1,4-diene)	3	-	III
ICAO TI	UN1993	FLAMMABLE LIQUID, N.O.S. (d-Limonene)	3	-	III

14.5 Environmental hazards	This is classified as an environmentally hazardous substance under the UN Model Regulations. This is classified as a Marine Pollutant under the IMDG Code.
14.6 Special precautions for user	None additional
14.7 Maritime transport in bulk according to IMO instruments	Not applicable

## Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	None additional
15.2 Chemical Safety Assessment	A Chemical Safety Assessment has not been carried out for this product.

**Section 16. Other information**

Concentration % Limits	SCI 2=10.73% EDI 2=57.18% SS 1=2.17% REP 2=33.33% EH A1=80.56% EH C2=44.31% EH C3=4.24% EH C4=63.89%
Total Fractional Values	SCI 2=9.32 EDI 2=1.75 SS 1=46.16 REP 2=3.00 EH A1=1.24 EH C2=2.26 EH C3=23.58 EH C4=1.57
Key to revisions	Not applicable

## Key to abbreviations

Abbreviation	Meaning
Acute Tox. 3	Acute Toxicity - Inhalation Category 3
Acute Tox. 4	Acute Toxicity - Oral Category 4
Aquatic Acute 1	Hazardous to the Aquatic Environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1
Aquatic Chronic 2	Hazardous to the Aquatic Environment - Long-term Hazard Category 2
Aquatic Chronic 3	Hazardous to the Aquatic Environment - Long-term Hazard Category 3
Asp. Tox 1	Aspiration Hazard Category 1
Eye Irrit. 2	Eye Damage / Irritation Category 2
Flam. Liq. 3	Flammable Liquid, Hazard Category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
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.
H331	Toxic if inhaled.
H361	Suspected of damaging fertility or the unborn child (exposure route).
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.
H412	Harmful to aquatic life with long lasting effects.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapour or dust.
P264	Wash hands and other contacted skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302/352	IF ON SKIN: Wash with plenty of soap and water.
P303/361/353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304/340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308/313	IF exposed or concerned: Get medical advice/attention.
P311	Call a POISON CENTRE or doctor/physician.
P330	Rinse mouth.
P331	Do not induce vomiting.
P332/313	If skin irritation occurs: Get medical advice/attention.
P333/313	If skin irritation or rash occurs: Get medical advice/attention.
P337/313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P370/378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
P391	Collect spillage.
P403/235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.

Abbreviation	Meaning
Repr. 2	Toxic to Reproduction Category 2
Skin Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Sens. 1	Sensitization - Skin Category 1
Skin Sens. 1B	Sensitization - Skin Category 1B

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.