



Material safety data sheet

According to EU Regulation 1907/2006 in the current version

PURE MYRTLE ESSENTIAL OIL

1. Identification of the substance/mixture and company

Trade name:	Pure Myrtle essential oil Natural product obtained by steam distillation of Myrtle leaves.
I.N.C.I.	Myrtus communis leaf oil
CAS No. :	84082-67-7
EINESCS No. :	282-012-8
REACH pre-registration No. :	/
Utilization:	Raw material for cosmetic or professional use
Supplier company identification:	Elemental SRL , Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.elemental.eu
Emergency:	RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București. International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to EC Reg. 1272/2008 (Norm. GHS-CLP)
Flammable liquids, Category 3
Skin corrosion/irritation, Category 2
Skin sensitization, Category 1
Reproductive toxicity, Category 2
Aspiration hazard, Category 1
Hazardous to the aquatic environment — Acute Hazard, Category 1
Hazardous to the aquatic environment — Chronic Hazard, Category 1

The full text of the risk phrases and precautionary phrases cited below is shown in point 16 of this sheet.

Hazards: H226 – H315 – H317 – H361 – H304 – H400 – H410

Precautions: P201 – P210 – P261 – P264 – P280 – P301+P310+P331 – P308+P313 – P333+P313 – P362+P364 – P391

Special instructions: none

Adverse physicochemical, human health and environmental effects

- Flammable liquid and vapor.
- Causes skin irritation.
- May cause an allergic skin reaction.
- May be fatal if swallowed and enters airways.
- Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms:



Hazard statement:

H226 – Flammable liquid and vapor.



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- H304 – May be fatal if swallowed and enters airways.
H315 – Causes skin irritation.
H317 – May cause an allergic skin reaction.
H361 – Suspected of damaging fertility or the unborn child.
H410 – Very toxic to aquatic life with long lasting effects.

Precautionary statement:

- P201 – Obtain special instructions before use.
P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 – Wash hands, forearms and face thoroughly after handling.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310+P331 – IF SWALLOWED: Immediately call a POISON CENTER/doctor/.... Do NOT induce vomiting.
P308+P313 – IF exposed or concerned: Get medical advice/attention.
P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 – Take off contaminated clothing and wash it before reuse.
P391 – Collect spillage.

Special instructions: none

2.3 Other hazards

No additional information available.

3. Declaration of ingredients

The product contains the following ingredients:

Substance	C.A.S.	EINECS	Hazard symbols	Percent %
alpha-Pinene	80-56-8	201-291-9	H226, H302, H315, H317, H304, H400, H410	≤ 57%
1,8-Cineol	470-82-6	207-431-5	H226, H317	≤ 26%
d- limonene	138-86-3	205-341-0	H226, H315, H317, H304, H400, H410	≤ 11%
Linalool	78-70-6	201-134-4	H315, H319, H317	≤ 5%
Geranyl acetate	105-87-3	203-341-5	H317, H315, H412	≤ 3%
p-Cymene	99-87-6	202-796-7	H361, H226, H304, H411	≤ 3%
alpha-Terpineol	98-55-5	202-680-6	H315, H319	≤ 2%
gamma-Terpinene	99-85-4	202-794-6	H361, H226, H304	≤ 2%
beta-Caryophyllene	87-44-5	201-746-1	H317, H304, H413	≤ 1.5%
Linalyl acetate	115-95-7	204-116-4	H315, H319, H317	≤ 1%
Geraniol	106-24-1	203-377-1	H317, H315, H318	≤ 0.8%
Methyl eugenol	93-15-2	202-223-0	H302, H341, H351	≤ 0.7%
beta-Pinene	127-91-3	204-872-5	H226, H315, H317, H304, H400, H410	≤ 0.6%



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Myrcene	123-35-3	204-622-5	H226, H315, H319, H304, H400, H411	≤ 0.5%
Neryl acetate	141-12-8	205-459-2	H317	≤ 0.3%
Methyl chavicol (estragol)	140-67-0	205-427-8	H317, H315, H341, H351, H412, H302	≤ 0.2%
Camphene	79-92-5	201-234-8	H228, H319, H400, H410	≤ 0.1%
l-carvone; (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one	6485-40-1	229-352-5	H317	

4. First aid measures

4.1 Description of first aid measures

In case of contact with skin: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

In case of contact with eyes: Rinse eyes with water as a precaution.

In case of inhalation: Remove person to fresh air and keep comfortable for breathing.

In case of ingestion: Do not induce vomiting. Call a doctor immediately.

4.2 Main symptoms and effects, both acute and delayed

Symptoms/effects after skin contact: Irritation. May cause an allergic skin reaction.

Symptoms/effects after ingestion: Risk of lung oedema.

4.3 Indication to consult a physician immediately or any special treatments

Treat symptomatically.

5. Fire fighting measures

5.1 Means of extinction

Suitable extinguishing media: Dry powder, foam, carbon dioxide.

Unsuitable extinguishing media: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Fire hazard: Flammable liquid and vapor.

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3 Recommendations for fire-fighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment: self-contained breathing apparatus, complete protective clothing.

6. Accidental release measures

6.1 Personal precautions, protective devices and emergency procedures

For non-emergency personnel

- Emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.



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For emergency responders

- Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and materials for containment and remediation

For containment: Collect spillage.

Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information: Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For further information refer to section 13.

7. Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures: Ground/bond container and receiving equipment.

Storage conditions: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Keep contents under nitrogen.

7.3 Specific end uses

No additional information available.

8. Exposure controls / personal protection

8.1 Control parameters

There are no specific control parameters.

8.2 Exposure controls



Appropriate engineering controls: Ensure good ventilation of the work station.



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Hand protection: Wear protective gloves.
Skin protection: Wear suitable protective clothing.
Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.
Eye protection: Wear safety glasses.

Environmental exposure controls: Avoid release to the environment.

9. Physical and chemical properties

9.1 Information on physical and chemical properties

Physical state: liquid
Appearance: liquid at room temperature
Color: yellow, amber, orangey
Odor: rustic. cineol-like, strong
Odor threshold: No data available
pH: No data available
Relative evaporation rate (butylacetate=1): No data available
Melting point: Not applicable
Freezing point: No data available
Boiling point: No data available
Flash point: 37 °C
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): Not applicable
Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: 0.873 - 0.92
Solubility: No data available
Log Pow : No data available
Viscosity, kinematic: < 20 mm²/s
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidizing properties: No data available
Explosive limits: No data available

9.2 Other information

Refractive index: 1.463 - 1.47

10. Stability and reactivity

10.1 Responsiveness

Flammable liquid and vapor.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of dangerous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Avoid contact with hot surfaces, heat. No flames, no sparks. Eliminate all sources of ignition.



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10.5 Incompatible materials

No additional information available.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

Pure Myrtle essential oil

LD50 oral rat \approx 3982 mg/kg

LD50 dermal > 5000 mg/kg LD50 for the guinea-pigs

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: May be fatal if swallowed and enters airways.

Viscosity, kinematic: < 20 mm²/s

12. Ecological information

12.1 Toxicity

Ecology - general: Very toxic to aquatic life with long lasting effects.

Acute aquatic toxicity: Very toxic to aquatic life.

Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No additional information available.

12.3 Bioaccumulation potential

No additional information available.

12.4 Ground mobility

No additional information available.

12.5 Results of PBT and vPvB assessment

No additional information available.

12.6 Other adverse effects

No additional information available.

13. Disposal considerations



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13.1 Waste treatment methods

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information: Flammable vapors may accumulate in the container.

14. Transport information

ADR / RID		IMDG		IATA	
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14.1 UN number

ADR: 1169
IMDG: 1169
IATA: 1169
Customs Code: 3301294100

14.2 UN shipping name

ADR: EXTRACTS, AROMATIC, LIQUID
IMDG: EXTRACTS, AROMATIC, LIQUID
IATA: EXTRACTS, AROMATIC, LIQUID

14.3 Class of danger for transport

ADR: 3
IMDG: 3
IATA: 3

14.4 Packing group

ADR: III
IMDG: III
IATA: III

14.5 Environmental hazards

ADR:
- Dangerous for the environment: Yes
IMDG:
- Dangerous for the environment: Yes
- Marine pollutant: Yes
IATA:
- Dangerous for the environment: Yes

14.6 Special precautions for users

Overland transport

Classification code (ADR): F1
Special provisions (ADR): 601
Limited quantities (ADR): 5I
Excepted quantities (ADR): E1
Packing instructions (ADR): P001, IBC03, LP01, R001



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Mixed packing provisions (ADR): MP19
Portable tank and bulk container instructions (ADR): T2
Portable tank and bulk container special provisions (ADR): TP1
Tank code (ADR): LGBF
Vehicle for tank carriage: FL
Transport category (ADR): 3
Special provisions for carriage - Packages (ADR): V12
Special provisions for carriage - Operation (ADR): S2
Hazard identification number (Kemler No.): 30
Orange plates:



Tunnel restriction code (ADR): D/E
EAC code: 3YE

Transport by sea

Special provisions (IMDG): 223, 955
Limited quantities (IMDG): 5 L
Excepted quantities (IMDG): E1
Packing instructions (IMDG): P001, LP01
IBC packing instructions (IMDG): IBC03
Tank instructions (IMDG): T2
Tank special provisions (IMDG): TP1
EmS-No. (Fire): F-E
EmS-No. (Spillage): S-D
Stowage category (IMDG): A
Properties and observations (IMDG): Usually consist of alcoholic solutions. Miscibility with water depends upon the composition.

Air transport

PCA Excepted quantities (IATA): E1
PCA Limited quantities (IATA): Y344
PCA limited quantity max net quantity (IATA): 10L
PCA packing instructions (IATA): 355
PCA max net quantity (IATA): 60L
CAO packing instructions (IATA): 366
CAO max net quantity (IATA): 220L
Special provisions (IATA): A3
ERG code (IATA): 3L

Inland waterway transport

Classification code (ADN): F1
Special provisions (ADN): 601
Limited quantities (ADN): 5 L
Excepted quantities (ADN): E1
Equipment required (ADN): PP, EX, A
Ventilation (ADN): VE01
Number of blue cones/lights (ADN): 0

Rail transport

Classification code (RID): F1
Special provisions (RID): 601



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Excepted quantities (RID): E1
Packing instructions (RID): P001, IBC03, LP01, R001
Mixed packing provisions (RID): MP19
Portable tank and bulk container instructions (RID): T2
Portable tank and bulk container special provisions (RID): TP1
Tank codes for RID tanks (RID): LGBF
Transport category (RID): 3
Special provisions for carriage – Packages (RID): W12
Colis express (express parcels) (RID): CE4
Hazard identification number (RID): 30

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
Not applicable

15. Regulatory information

15.1 Regulations and legislation on health, safety and environment specific to the substance or mixture

EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
Reference code	Applicable on
3.	Pure Myrtle essential oil
3(a)	Pure Myrtle essential oil; 1,8-Cineol; alpha-Pinene; beta-Pinene; Myrcene; Camphene; pCymene; dipentene, limonene
3(b)	Pure Myrtle essential oil; Geranyl acetate; Geraniol; 1,8-Cineol; alpha-Pinene; alphaTerpineol; beta-Pinene; Myrcene; Linalool; Camphene; p-Cymene; dipentene, limonene; Linalyl acetate; Methyl eugenol; Neryl acetate; beta-Caryophyllene; Methyl chavicol (estragol)
3(c)	Pure Myrtle essential oil; Geranyl acetate; alpha-Pinene; beta-Pinene; Myrcene; Camphene; p-Cymene; dipentene, limonene; beta-Caryophyllene
40.	Pure Myrtle essential oil

Pure Myrtle essential oil is not on the REACH Candidate List.

Pure Myrtle essential oil is not on the REACH Annex XIV List.

Pure Myrtle essential oil is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Pure Myrtle essential oil is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

15.2 Chemical safety assessment.

No chemical safety assessment has been carried out.

16. Additional information

16.1 Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).



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ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
LTE: Long-term exposure.
PNEC: Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE: Short-term exposure.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.

16.2 Full text of the H phrases mentioned in point 3:

H226 - Flammable liquid and vapor.
H228 - Flammable solid.
H302 - Harmful if swallowed.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H341 - Suspected of causing genetic defects.
H351 - Suspected of causing cancer.
H361 - Suspected of damaging fertility or the unborn child.
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.
H413 - May cause long lasting harmful effects to aquatic life.

DECLARATION OF ALLERGENS

7th Amendment to Directive 76/768/EC, annex III, part I (2003/15/EC)

I.N.C.I.	C.A.S.	%
Alpha-Hexyl cinnamic aldehyde (HCA)	101-86-0	-
Amyl cinnamic alcohol	101-85-9	-
Amyl cinnamic aldehyde (ACA)	122-40-7	-
Anisyl alcohol	105-13-5	-
Benzyl salicylate	118-58-1	-
Benzyl benzoate	120-51-4	-
Benzyl cinnamate	103-41-3	-
Benzyl alcohol	100-51-6	-
Cinnamic alcohol	104-54-1	-
Cinnamic aldehyde	104-55-2	-
Citral	5392-40-5	≤ 0.1000
Citronellol	106-22-9	≤ 0.3000



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Coumarin (2p-1-benzopyran-2-one)	91-64-5	-
d-Limonene	5989-27-5	≤ 11.0000
Eugenol	97-53-0	≤ 0.1000
Farnesol	4602-84-0	-
Geraniol	106-24-1	≤ 0.8000
Lyrar (Hydroxymethylpentyl cyclohexene carbaldoxaldehyde)	31906-04-4	-
Hydroxycitronellal	107-75-5	-
Isoeugenol	97-54-1	-
alpha-Iso-methyl ionone	127-51-5	-
Linalool	78-70-6	≤ 5.0000
Methyl heptine carbonate	12/06/11	-
Oakmoss absolute	9000-50-4	-
p-tert-Butyl-alpha- methylhydrocinnamic aldehyde	80-54-6	-
Tree moss	68648-41-9	-

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.