

Material safety data sheet
According to EU Regulation 1907/2006 in the current version
YARROW PURE ESSENTIAL OIL

1. Identification of the substance/mixture and company

| | |
|----------------------------------|---|
| Trade name: | Yarrow pure essential oil |
| | Essential oil obtained by distillation from the flowering tops of Achillea Millefolium |
| I.N.C.I. | Achillea Millefolium Oil |
| CAS No. : | 8022-07-9 / 84082-83-7 |
| EINECS No. : | 282-030-6 |
| 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

The product is classified as dangerous according to the provisions of the Directive 67/548 / EEC and 1999/45 / EC and subsequent amendments and adjustments. It is also classified dangerous according to EC Regulation 1272/2008.

The product therefore requires a safety data sheet in accordance with the provisions of the EC Regulation 1907/2006 and subsequent amendments.

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

Classification according to EC Reg. 1272/2008 (Norm. GHS-CLP).

AH1 – Aspiration hazard 1

ED12 – Serious eye damage / eye irritation 2

EHC2 – Hazardous to the aquatic environment, long-term hazard 2

FL3 – Flammable Liquids 3

SC12 – Skin corrosion / irritation 2

SS1 – Sensitization skin 1

Hazards: H226 – H304 – H315 – H317 – H319 – H411

Precautions: P210 – P233 – P241 – P242 – P243 – P261

Special instructions: none

2.2 Label elements

Hazard pictograms:



Hazard statement:

H226 – Flammable liquid and vapour.

H304 – May be fatal if swallowed and enters airways.

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H315 – Causes skin irritation.
H317 – May cause an allergic skin reaction.
H319 – Causes serious eye irritation.
H411 – Toxic to aquatic life with long lasting effects.

Precautionary statement:

P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 – Keep container tightly closed.
P241 – Use explosion-proof electrical/ventilating/lighting/equipment.
P242 – Use only non-sparking tools.
P243 – Take precautionary measures against static discharge.
P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.

Special instructions: none

2.3 Other hazards

Contains 2,6,6-trimethyl-bicyclo-2-heptene, SABINENE, d-Limonene, Geraniol, Linalool, Myrcene, Beta-Pinène

3. Declaration of ingredients

The product contains the following components:

| Substance | C.A.S. | EINECS | Hazard symbols | Percent % |
|----------------------------------|-----------|-----------|------------------------------------|-----------|
| 2,6,6-trimethylbicyclo-2-heptene | 80-56-8 | 201-291-9 | H226, H304, H315, H317, H400, H410 | [20 ; 25] |
| Eucalyptol | 470-82-6 | 207-431-5 | H226, H317 | [5 ; 10] |
| Alpha Thujone | 546-80-5 | 208-912-2 | H302 | [1 ; 5] |
| Beta-Pinène | 127-91-3 | 204-872-5 | H226, H304, H315, H317, H400, H410 | [1 ; 5] |
| Geraniol | 106-24-1 | 203-377-1 | H315, H317, H318 | [1 ; 5] |
| Linalool | 78-70-6 | 201-134-4 | H315, H319 | [1 ; 5] |
| Myrcene | 123-35-3 | 204-622-5 | H226, H304, H315, H319 | [1 ; 5] |
| SABINENE | 3387-41-5 | 222-212-4 | H226, H304, H315, H317, H411 | [1 ; 5] |
| d-Limonene | 5989-27-5 | 227-813-5 | H226, H304, H315, H317, H400, H410 | [1 ; 5] |

4. First aid measures

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4.1 Description of first aid measures

In case of contact with skin: wash the affected area immediately with plenty of soap and water, if irritation persists seek medical attention.

In case of contact with eyes: rinse with plenty of water for at least 15 minutes (while holding eyelids apart), if irritation persists seek medical attention.

In case of inhalation: take the person to fresh air, remove contaminated clothes, if difficulty of breathing persists seek medical attention.

4.2 Main symptoms and effects, both acute and delayed

In case of contact with skin, may cause irritation. May cause illness in case of inhalation.

4.3 Indication to consult a physician immediately or any special treatments

In case of illness contact your physician immediately.

5. Fire fighting measures

5.1 Means of extinction

Do not use water to extinguish fire. Use foam fire extinguishers, with carbon dioxide or powder.

5.2 Special hazards arising from the substance or mixture

During the fire toxic fumes could be released, use protective masks. Overpressure can be created in containers exposed to fire with danger of explosion, cool the containers before handling them.

5.3 Recommendations for fire-fighters

Always wear full fire protection equipment (protective helmet with visor, fireproof clothing, intervention gloves, breathing apparatus).

6. Accidental release measures

6.1 Personal precautions, protective devices and emergency procedures

In case of loss or spillage of the product, remove any flames or other sources of heat from the area where the leak occurred. Use protection if necessary for airways; protective clothing must be worn (eg. safety glasses or masks). Do not handle damaged containers or spilled product without wearing the appropriate protective equipment.

6.2 Environmental precautions

Prevent the product from entering drains, superficial drains, groundwater and confined areas. In case of such contamination inform the competent authorities.

6.3 Methods and materials for containment and remediation

Absorb spilled product with inert absorbent material (sand, vermiculite, diatomaceous earth). Collect most of the resulting material and deposit it in containers for disposal. Ensure adequate ventilation of the site.

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6.4 Reference to other sections

Disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

7. Handling and storage

7.1 Precautions for safe handling

Use in well-ventilated places. Do not eat, drink or smoke during use product handling. Always wash your hands before and after use. Use protective clothing.

7.2 Conditions for safe storage, including any incompatibilities

Store in well-filled, tightly closed containers, away from direct sunlight and a temperature below 50°C away from any source of combustion. Do not smoke.

7.3 Specific end uses

None.

8. Exposure controls / personal protection

8.1 Control parameters

There are no specific control parameters.

8.2 Exposure controls



Hand protection: Protect hands with category I work gloves (ref. Directive 89/686 / EEC and standard EN 374) such as latex, PVC or equivalent.

Skin protection: Wear work clothes with long sleeves and safety footwear for professional use of category I (ref. Directive 89/686 / EEC and standard EN 344). Wash with soap and water after removing protective clothing.

Respiratory protection: Use protective masks. The use of respiratory protection is necessary in the absence of technical measures to limit worker exposure.

Eye protection: it is recommended to wear airtight protective goggles (ref. Standard EN 166).

9. Physical and chemical properties

9.1 Information on physical and chemical properties

Appearance: liquid

Color: dark blue

Odor: fresh, camphorated, penetrating

Relative density (d 20 / 20): [0.900 ; 0.950]

Refractive index at 20°C: [1.460 ; 1.500]

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Optical rotation (°): NA
Flash point: 54 °C
Odor threshold: NA
pH: NA
Melting point / freezing point: NA
Initial boiling point and boiling range: NA
Flash point: NA
Evaporation rate: NA
Flammability (solid, gas): NA
Upper / lower flammability or explosive limits: NA
Vapor tension: NA
Vapor density: NA
Solubility in water: NA
Partition coefficient: n-octanol / water NA
Auto-ignition temperature: NA
Decomposition temperature: NA
Viscosity: NA
Explosive properties: NA
Oxidizing properties: NA

9.2 Other information

None

10. Stability and reactivity

Stable under normal conditions of use.

10.1 Responsiveness

Not applicable

10.2 Chemical stability

Not applicable

10.3 Possibility of dangerous reactions

Not applicable

10.4 Conditions to avoid

Not applicable

10.5 Incompatible materials

Not applicable

10.6 Hazardous decomposition products

Not applicable

11. Toxicological information

11.1 Information on toxicological effects

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Acute toxicity information:

- Oral (mg / kg): Not defined
- inhalation (mg / kg): Not defined
- Cutaneous (mg / kg): Not defined

12. Ecological information

12.1 Toxicity

Do not allow the product, even if diluted or in small quantities, to penetrate the ground aquifers or drain pipes.

12.2 Persistence and degradability

Not applicable

12.3 Bioaccumulation potential

Not applicable

12.4 Ground mobility

Not applicable

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

Not applicable

13. Disposal considerations

13.1 Waste treatment methods

Product residues are to be considered special hazardous waste. The danger of the waste that partly contains this product must be assessed on the basis of current legislative provisions.

Disposal must be entrusted to an authorized waste management company in compliance with national and possibly local legislation.

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

14. Transport information

| ADR / RID | IMDG | IATA |
|-----------|------|------|
| | | |

14.1 UN number

ADR: 1169 (Tunnel restriction code: D/E)

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IMDG: 1169
IATA: 1169
Customs Code: 33012941

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
IMDG: Marine pollutant component

14.6 Special precautions for users
Not applicable

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
Not applicable.

15.2 Chemical safety assessment.
Contains 2,6,6-trimethyl-bicyclo-2-heptene, SABINENE, d-Limonene, Geraniol, Linalool, Myrcene, Beta-Pinène. May cause allergic reactions.

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.

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

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 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.

H318 Causes serious eye damage.

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.

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 | 0,0017 |
| Citronellol | 106-22-9 | 0,0018 |
| Coumarin (2p-1-benzopyran-2-one) | 91-64-5 | - |
| d-Limonene | 5989-27-5 | 2,4412 |

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| | | |
|---|------------|--------|
| Eugenol | 97-53-0 | - |
| Farnesol | 4602-84-0 | - |
| Geraniol | 106-24-1 | 2,0007 |
| 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 | 2,0702 |
| 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.