



**AMPHORA AROMATICS
LIMITED**

essential oils, skincare & aromatherapy products

SAFETY DATA SHEET

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

PRODUCT NAME: Yarrow Essential Oil

SUPPLIER: Amphora Aromatics Limited, Airfield House, Western Drive, Bristol, BS14 0AF

PRODUCT NUMBER: 144

CAS NUMBER: 8022-07-9 / 84082-83-7

EC NUMBER: / 282-030-6

INCI: Achillea Millefolium Oil

IDENTIFIED USES: Suitable for use in cosmetics, aromatherapy, food, flavours and professional use.

BIOLOGICAL DEFINITION: Achillea Millefolium Oil is the essential oil obtained from the flowering herb of the Yarrow, Achillea millefolium L., Asteraceae.

2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CAS: 8022-07-9 / 84082-83-7

EC: 282-030-6

CLASSIFICATION (EC 1272/2008):

- | | |
|--------------------------|--------------------------|
| - PHYSICAL HAZARDS: | Flam. Liq. 3 - H226 |
| - HEALTH HAZARDS: | Acute Tox. 4 - H302 |
| | Asp. Tox. 1 - H304 |
| | Skin Irrit. 2 - H315 |
| | Skin Sens. 1B - H317 |
| | Eye Irrit. 2 - H319 |
| | Repr. 2 - H361 |
| | STOT SE 2 - H371 |
| - ENVIRONMENTAL HAZARDS: | Aquatic Acute 1 - H400 |
| | Aquatic Chronic 1 - H410 |

LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD:

DANGER

HAZARD STATEMENTS:

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.
H361 Suspected of damaging fertility or the unborn child.
H371 May cause damage to organs.
H410 Very toxic to aquatic life with long lasting effects.



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PRECAUTIONARY STATEMENTS:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P260 Do not breathe vapours/spray. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P331 Do NOT induce vomiting. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing. And wash it before reuse. P370+P378 In case of fire: Use Carbon dioxide (CO ₂), Dry Chemical Powder to extinguish. P391 Collect spillage. P501 Dispose of contents in accordance with local, state or national legislation.
SUPPLEMENTARY PRECAUTIONARY STATEMENTS:	P264 Wash hands and exposed skin thoroughly after handling.
CONTAINS:	Camphor, beta-Pinene, Sabinene.

3: COMPOSITION/INFORMATION ON INGREDIENTS

≤ 20.0% Camphor

CAS NUMBER: 76-22-2	EC NUMBER: 200-945-0
CLASSIFICATION (EC 1272/2008):	Flam. Sol. 2 - H228 Acute Tox. 4 - H302 Acute Tox. 4 - H332 STOT SE 2 - H371 Aquatic Chronic 2 - H411

5.0 – 20.0% beta-Pinene

CAS NUMBER: 127-91-3	EC NUMBER: 204-872-5
CLASSIFICATION (EC 1272/2008):	Flam. Liq. 3 - H226 Asp. Tox. 1 - H304 Skin Irrit. 2 - H315, Skin Sens. 1B - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410



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10.0 – 20.0% beta-Caryophyllene

CAS NUMBER: 87-44-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 201-746-1

Asp. Tox. 1 - H304

Skin Sens. 1B - H317

Aquatic Chronic 4 - H413

≤ 18.0% Sabinene

CAS NUMBER: 3387-41-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 222-212-4

Flam. Liq. 3 - H226

Asp. Tox. 1 - H304

Skin Irrit. 2 - H315,

Eye Irrit. 2 - H319

STOT SE 3 H335

2.0 – 15% alpha-Thujone

CAS NUMBER: 546-80-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 208-912-2

Acute Tox. 4 - H302

≤ 11.0% 1,8-Cineole

CAS NUMBER: 470-82-6

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 207-431-5

Flam. Liq. 3 - H226

Skin Sens. 1B - H317

2.0 – 10% alpha-Pinene

CAS NUMBER: 80-56-8

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 201-291-9

Flam. Liq. 3 - H226

Acute Tox. 4 H302

Asp. Tox. 1 - H304

Skin Irrit. 2 - H315

Skin Sens. 1B - H317

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

≤ 6.0% L-Borneol

CAS NUMBER: 464-45-9

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 207-353-1

Flam. Sol. 1 - H228

Skin Irrit. 2 - H315

≤ 6.0% Terpinene-4-ol

CAS NUMBER: 562-74-3

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 209-235-5

Acute Tox. 4 - H302

Skin Irrit. 2 - H315, Skin Sens. 1 - H317,

Eye Irrit. 2 - H319, STOT SE 3 - H336

≤ 5.0% beta-Thujone

CAS NUMBER: 1125-12-8

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 214-405-7

Acute Tox. 4 - H302

Acute Tox. 4 - H312

Skin Irrit. 2 - H315,

Eye Irrit. 2 - H319

Acute Tox. 4 - H332



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≤ 5.0% gamma-Terpinene

CAS NUMBER: 99-85-4

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-794-6

Flam. Liq. 3 - H226

Repr. 2 - H361

Aquatic Chronic 2 - H411

≤ 2.0% Linalool

CAS NUMBER: 78-70-6

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 201-134-4

Skin Irrit. 2 - H315

Skin Sens. 1B - H317

Eye Irrit. 2 H319

≤ 2.0% 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

≤ 0.5% Chamazulene

CAS NUMBER: 529-05-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 208-449-6

Aquatic Chronic 4 - H413

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

4: FIRST AID MEASURES

INHALATION:

Remove from exposure area to fresh air. Get medical advice/attention.

INGESTION:

Do not induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Get medical advice/attention if symptoms persist.

SKIN CONTACT:

Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if any discomfort continues.

EYE CONTACT:

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical advice/attention. Continue to rinse.

MOST IMPORTANT SYMPTOMS AND EFFECTS,
BOTH ACUTE AND DELAYED:

No additional data available.

INDICATION OF ANY IMMEDIATE MEDICAL

ATTENTION AND SPECIAL TREATMENT NEEDED:

No additional data available.



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5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED:	Carbon dioxide (CO ₂), Dry Chemical Powder.
UNSUITABLE EXTINGUISHING MEDIA:	Do not use water jet as an extinguisher, as this may scatter and spread fire.
SPECIAL HAZARDS ARISING FROM THE PRODUCT:	When heated and in case of fire, irritating vapours/gases may be formed.
ADVICE FOR FIREFIGHTERS:	Avoid inhalation of generated fumes or vapours. Wear self-contained breathing apparatus and appropriate protective clothing.

6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	Wear protective clothing as described in Section 8 of this safety data sheet. Handle the product using protective gloves resistant to the chemicals exposed. Avoid contact with skin and inhalation of its vapours. Maintain adequate ventilation in the working area after spilling.
ENVIRONMENT PRECAUTIONS:	Do not discharge into drains, water courses or onto the ground. Keep away from surface and ground water.
METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:	Absorb with liquid binding material e.g. sand, diatomaceous earth. Collect in closed and suitable containers for disposal. Prevent any material from entering drains or waterways.

7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Ensure good ventilation/exhaustion at the workplace. Do not smoke, drink, eat when using. Keep away from sources of ignition. Protect against electrostatic charges.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:	Store in tightly-closed, original container in a dry, cool and well-ventilated area, away from potential sources of ignition and protected from light.



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8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:

Camphor CAS No: 76-22-2

Long-term exposure limit (8-hour TWA): WEL 2 ppm 13 mg/m³

Short-term exposure limit (15-minute): WEL 3 ppm 19 mg/m³

WEL = Workplace Exposure Limit

PROTECTIVE EQUIPMENT:



PROCESS CONDITIONS:

ENGINEERING MEASURES:

RESPIRATORY EQUIPMENT:

HAND PROTECTION:

EYE PROTECTION:

OTHER PROTECTION:

HYGIENE MEASURES:

PERSONAL PROTECTION:

SKIN PROTECTION:

ENVIRONMENTAL EXPOSURE CONTROLS:

Provide eyewash station.

Provide adequate ventilation or respiratory protection.

Generally unnecessary in a well-ventilated area.

If ventilation is insufficient, respiratory protection must be worn.

Wear suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Avoid contact with eyes.

Wear safety goggles in accordance with standard EN166.

Wear appropriate clothing to prevent any possibility of skin contact.

Good personal hygiene practices are always advisable, especially when working with chemicals / oils.

Avoid contact with eyes and skin.

Wear protective clothing to avoid skin contact.

Avoid discharging into drainage water.

9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Mobile liquid blue to dark blue.

COLOUR:

Blue to dark blue.

ODOUR:

Characteristic

RELATIVE DENSITY:

Approx. 0.910 @ 20°C

FLASH POINT (°C):

54

REFRACTIVE INDEX:

Approx. 1.477 @ 20°C

MELTING POINT (°C):

No additional data available.

BOILING POINT (°C):

No additional data available.

VAPOUR PRESSURE:

No additional data available.

SOLUBILITY IN WATER @20°C:

Not soluble.

AUTO-IGNITION TEMPERATURE (°C):

No additional data available



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10: STABILITY AND REACTIVITY

REACTIVITY:	Presents no significant reactivity hazards. Stable under normal temperature conditions and recommended use.
CHEMICAL STABILITY:	Stable under normal conditions of use.
POSSIBLE HAZARDOUS REACTIONS:	Not expected under normal temperature conditions and recommended use.
CONDITIONS TO AVOID:	Avoid extreme heat and direct sunlight, sparks or open flame.
INCOMPATIBLE MATERIALS:	Avoid strong acids, alkalis and oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Harmful if swallowed (Calculation method).
SKIN CORROSION / IRRITATION:	Causes skin irritation.
SERIOUS EYE DAMAGE / IRRITATION:	Causes serious eye irritation.
RESPIRATORY OR SKIN SENSITISATION:	Skin - May cause an allergic skin reaction.
GERM CELL MUTAGENICITY:	No additional data available.
CARCINOGENICITY:	No additional data available.
REPRODUCTIVE TOXICITY:	Suspected of damaging fertility or the unborn child.
STOT-SINGLE EXPOSURE:	May cause damage to organs.
STOT-REPEATED EXPOSURE:	No additional data available.
ASPIRATION HAZARD:	May be fatal if swallowed and enters airways.
PHOTO-TOXICITY:	No additional data available.
OTHER INFORMATION:	No additional data available.

12: ECOLOGICAL INFORMATION

ECOTOXICITY:	Very toxic to aquatic life with long lasting effects.
PERSISTENCE AND DEGRADABILITY:	Product is biodegradable.
BIOACCUMULATIVE POTENTIAL:	No additional data available.
MOBILITY IN SOIL:	No additional data available.
RESULTS OF PBT AND VPVB ASSESSMENT:	No additional data available.
OTHER ADVERSE EFFECTS:	No additional data available.

13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	<p>Waste: Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste. Do not dispose of waste into the environment. Do not allow entry into drains or waterways.</p> <p>Soiled packaging: Empty container completely. Keep label(s) on container. Dispose of via a certified disposal contractor.</p>
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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

- ADR/RID: Class 3
- ADR CLASSIFICATION CODE: F1
- SPECIAL PROVISIONS: 601 604E
- LIMITED QUANTITIES: 5L
- EXPECTED QUANTITIES: E1
- EMERGENCY ACTION CODE: 3Y
- TUNNEL RESTRICTION CODE: D/E

IMDG

- IMDG: Class 3
- SPECIAL PROVISIONS: 601 640E
- LIMITED QUANTITIES: 5L
- EXPECTED QUANTITIES: E1
- IMDG EMS: F-E, S-D
- STOWAGE AND HANDLING: Category A



ICAO/IATA

- ICAO/IATA: Class 3
- IATA PROPER SHIPPING NAME: EXTRACTS, AROMATIC, LIQUID.
- EXPECTED QUANTITIES: E1

PACKING GROUP:

- ADR/RID PACKING GROUP: III
- IMDG PACKING GROUP: III
- ICAO PACKING GROUP: III

ENVIRONMENTAL HAZARDS: Environmentally Hazardous
Substance/Marine Pollutant



TRANSPORT IN BULK ACCORDING TO ANNEX II
OF MARPOL73/78 AND THE IBC CODE: Not Applicable.



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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.
APPROVED CODE OF PRACTISE:	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.
GUIDANCE:	CHIP for everyone HSG (108). Workplace Exposure Limits EH40

16: OTHER INFORMATION

HAZARD AND/OR PRECAUTIONARY STATEMENTS IN FULL	H226 Flammable Liquid and vapour H228 Flammable solid. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child. H371 May cause damage to organs. 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. H413 May cause long lasting harmful effects to aquatic life.
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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.

SDS: 144 Yarrow Essential Oil

Compiled by: Johndan Chilcott, Regulatory Affairs - Approved by Woody Evans, Director– Date:30/04/2019 - Version: 3