



**AMPHORA AROMATICS
LIMITED**

essential oils, skincare & aromatherapy products

SAFETY DATA SHEET

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

PRODUCT NAME: Elemi Essential Oil

SUPPLIER: Amphora Aromatics Ltd, 36 Cotham Hill, Cotham, Bristol BS6 6LA
Telephone +44 (0)117-9087770.

PRODUCT NUMBER: 115

CAS NUMBER: n/a

EC NUMBER: n/a

INCI: Canarium Luzonicum Gum Oil

IDENTIFIED USES: Suitable for use in cosmetics, fragrances, flavourings and professional applications only.

BIOLOGICAL DEFINITION: "Elemi Resin Oil". Canarium Luzonicum Gum Oil is an essential oil obtained from the resin exudate of the Elemi, *Canarium luzonicum syn. C. commune, Burseraceae*.

2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

PHYSICAL HAZARDS:	Flammable liquid
HEALTH HAZARDS:	May be fatal if swallowed and enters airways. The liquid may be irritating to skin. May cause sensitisation or allergic reactions in sensitive individuals.
ENVIRONMENTAL HAZARDS:	The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
CLASSIFICATION (EC 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 Acute 1 – H400 Aquatic Chronic 1 - H410

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. H410 Very toxic to aquatic life with long lasting effects.

SDS: 115 Elemi Oil

Compiled by: Johndan Chilcott, Regulatory Affairs - Approved by Woody Evans, Director – Date: 27/03/2019 - Version:3



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PRECAUTIONARY STATEMENTS:	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. P331 Do NOT induce vomiting. P391 Collect spillage.
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	P262 Do not get in eyes, on skin, or on clothing. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground/ bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P302+P352 IF ON SKIN: Wash with plenty of water. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: 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. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.
CONTAINS:	d-Limonene, alpha-Phellandrene, p-Cymene, alpha- Pinene, beta- Pinene, alpha- Terpinolene

3: COMPOSITION/INFORMATION ON INGREDIENTS

< 65% d-Limonene

CAS NUMBER: 5989-27-5

M FACTOR (ACUTE) = 1

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 227-813-5

M FACTOR (CHRONIC) = 1

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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5-15% alpha- Phellandrene

CAS NUMBER: 99-83-2

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-792-5

Flam. Liq. 3 - H226,

Asp. Tox. 1 - H304

1-5% 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

1-5% p-menth-1-en-8-ol

CAS NUMBER: 98-55-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-680-6

Skin Irrit. 2 - H315,

Eye Irrit. 2 - H319

1-4% p-Cymene

CAS NUMBER: 99-87-6

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-796-7

Flam. Liq. 3 - H226,

Asp. Tox. 1 - H304,

Skin Irrit.2 – H315,

Eye Irrit. 2 – H319

< 5% alpha- Terpinolene

CAS NUMBER: 586-62-9

M FACTOR (ACUTE) = 1

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 209-578-0

M FACTOR (CHRONIC) = 1

Skin Sens. 1 - H317,

Asp. Tox. 1 - H304,

Aquatic Acute 1 - H400,

Aquatic Chronic 1 - H410

< 1% alpha- Pinene

CAS NUMBER: 80-56-8

M FACTOR (ACUTE) = 1

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 201-291-9

M FACTOR (CHRONIC) = 1

Flam. Liq. 3 - H226,

Acute Tox. 4 H302,

Asp. Tox. 1 - H304,

Skin Irrit. 2 - H315,

Skin Sens. 1 - H317,

Aquatic Acute 1 - H400,

Aquatic Chronic 1 - H410

< 1% beta- Pinene

CAS NUMBER: 127-91-3

M FACTOR (ACUTE) = 1

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 204-872-5

M FACTOR (CHRONIC) = 1

Flam. Liq. 3 - H226,

Skin Irrit. 2 - H315,

Skin Sens. 1 - H317,

Asp. Tox. 1 - H304,

Aquatic Acute 1 - H400,

Aquatic Chronic 1 - H410

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

SDS: 115 Elemi Oil

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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 ₂). Dry Chemical Powder. Foam. Water Spray.
UNSUITABLE EXTINGUISHING MEDIA SPECIAL HAZARDS ARISING FROM THE PRODUCT:	Do not use water jet as an extinguisher, as this will spread the fire. Burning produces 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: METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP.:	Do not discharge into drains, water courses or onto the ground. Absorb with liquid binding material (e.g. sand, diatomaceous earth, acid or universal binding agents). Collect in closed and suitable containers for disposal.

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.



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8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:

d-Limonene (CAS: 5989-27-5)

DNEL	Workers - Inhalation; Long term systemic effects: 33.3 mg/m ³ General population - Oral; Long term systemic effects: 4.76 mg/kg
PNEC	- STP; 1.8 mg/l - Soil; 0.262 mg/kg - Fresh water; 0.0054 mg/l - Marine water; 0.00054 mg/l - Sediment (Fresh water); 1.32 mg/kg - Sediment (Marine water); 0.13 mg/kg

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

DNEL	Workers - Inhalation; Long term systemic effects: 7.05 mg/m ³ 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 ³
PNEC	- Fresh water; Short term 5.7 mg/l - Intermittent release, Fresh water; 0.57 mg/l - Marine water; Short term 5.7 mg/l - STP; Short term 10 mg/l - Sediment (Freshwater); Short term 1.425 mg/kg - Sediment (Marine water); Short term 0.142 mg/kg - Soil; Short term 0.25 mg/kg

p-menth-1-en-8-ol (CAS: 98-55-5)

PNEC	- Fresh water; Short term 68 mg/l - Marine water; Short term 6.8 mg/l - STP; Short term 2.6 mg/l - Sediment (Freshwater); Short term 1.85 mg/kg - Sediment (Marine water); Short term 0.185 mg/kg - Soil; Short term 0.329 mg/kg
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Alpha Pinene (CAS: 80-56-8)

DNEL

Workers - Inhalation; Long term systemic effects: 3.8 mg/m³
Workers - Dermal; Long term systemic effects: 0.54 mg/kg, bw/day
General population - Inhalation; Long term systemic effects: 0.67 mg/m³
General population - Dermal; Long term systemic effects: 0.19 mg/kg, bw/day
General population - Oral; Long term systemic effects: 0.19 mg/kg, bw/day

PNEC

- Fresh water; Short term 0.606 mg/l
- Fresh water, Intermittent release; 3.03 mg/l
- Marine water; Short term 0.061 mg/l
- Intermittent release, Marine water; 0.303 mg/l
- STP; Short term 0.2 mg/l
- Sediment (Freshwater); Short term 157 mg/kg
- Sediment (Marine water); Short term 15.7 mg/kg
- Soil; Short term 31.7 mg/kg

Alpha- Terpinolene (CAS: 586-62-9)

DNEL

Workers - Inhalation; Long term systemic effects: 3.6 mg/m³
Workers - Dermal; Long term systemic effects: 0.52 bw/day, mg/kg
General population - Inhalation; Long term systemic effects: 0.9 mg/m³
General population - Dermal; Long term systemic effects: 0.26 bw/day, mg/kg
General population - Oral; Long term systemic effects: 0.26 bw/day, mg/kg

PNEC

- Fresh water; Short term 0.634 mg/l
- Intermittent release, Fresh water; Short term 0.634 mg/l
- Marine water; Short term 0.063 mg/l
- STP; Short term 0.2 mg/l
- Sediment (Freshwater); Short term 14.7 mg/kg
- Sediment (Marine water); Short term 14.7 mg/kg
- Soil; Short term 29.1 mg/kg



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Beta Pinene (CAS: 127-91-3)

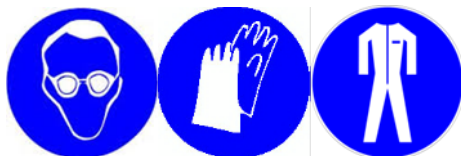
DNEL

Workers - Inhalation; Long term systemic effects: 5.69 mg/m³
Workers - Dermal; Long term systemic effects: 0.8 mg/kg, bw/day
General population - Inhalation; Long term systemic effects: 1 mg/m³
General population - Dermal; Long term systemic effects: 0.3 bw/day, mg/kg
General population - Oral; Long term systemic effects: 0.3 mg/kg, bw/day

PNEC

- Fresh water; Short term 1.004 mg/l
- Intermittent release, Fresh water; 5.02 mg/l
- Marine water; Short term 0.1 mg/l
- STP; Short term 3.26 mg/l
- Sediment (Freshwater); Short term 0.337 mg/kg
- Sediment (Marine water); Short term 0.034 mg/kg
- Soil; Short term 0.067 mg/kg

PROTECTIVE EQUIPMENT:



APPROPRIATE ENGINEERING CONTROLS:

Provide adequate ventilation.
Provide eyewash station.

EYE/FACE PROTECTION:

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

HAND PROTECTION:

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

OTHER SKIN AND BODY PROTECTION:

Wear appropriate clothing to prevent any possibility of skin contact.

Use personal protection according to Directive 89/686/EEC.
Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.

HYGIENE MEASURES:

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

RESPIRATORY PROTECTION:

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.



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ENVIRONMENTAL EXPOSURE CONTROLS:

- 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. Avoid discharging into drainage water. Only eliminate by authorised companies.

9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid, colourless to yellow.
COLOUR:	Colourless to yellow.
ODOUR:	Characteristic – balsamic spicy.
FLASH POINT °C:	54.0
SPECIFIC GRAVITY @ 20°C:	~0.900
REFRACTIVE INDEX @ 20°C:	~1.480
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	No additional data available.
AUTO-IGNITION TEMPERATURE (°C)	No additional data available.

10: STABILITY AND REACTIVITY

REACTIVITY:	The substance is stable under normal storage and handling conditions.
CHEMICAL STABILITY:	Stable at normal ambient temperature.
POSSIBLE HAZARDOUS REACTIONS	None known.
CONDITIONS TO AVOID	Avoid heat, flames and other sources of ignition.
INCOMPATIBLE MATERIALS	Avoid strong oxidising agents and strong reducing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon dioxide (CO ₂). Carbon monoxide (CO).

11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Not classified.
SKIN CORROSION / IRRITATION	Causes skin irritation.
SERIOUS EYE DAMAGE / IRRITATION	Not classified.
RESPIRATORY OR SKIN SENSITISATION	Skin - May be fatal if swallowed and enters airways.
GERM CELL MUTAGENICITY	Not classified.
CARCINOGENICITY	Not classified.
REPRODUCTIVE TOXICITY	Not classified.
STOT-SINGLE EXPOSURE	Not classified.
STOT-REPEATED EXPOSURE	Not classified.
ASPIRATION HAZARD	May be fatal if swallowed and enters airways.
PHOTO-TOXICITY	No additional data available.
OTHER INFORMATION	No additional data available.



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12: ECOLOGICAL INFORMATION

ECOTOXICITY:	Very toxic to aquatic life with long lasting effects.
PERSISTENCE AND DEGRADABILITY:	No additional data available.
BIOACCUMULATIVE POTENTIAL:	No additional data available.
MOBILITY IN SOIL:	No additional data available.
RESULTS OF PBT AND VPVB ASSESSMENT:	No additional data available.
PRECAUTIONS:	Do not allow product to enter streams, sewers or other waterways.

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.
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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/ADN CLASS	3 Flammable liquid
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:	No additional data available.



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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.
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. 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. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
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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.