



**AMPHORA AROMATICS
LIMITED**

essential oils, skincare & aromatherapy products

SAFETY DATA SHEET

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

PRODUCT NAME: Cardamom Essential Oil

SUPPLIER: Amphora Aromatics Ltd, 36 Cotham Hill, Cotham, Bristol BS6 6LA

Telephone +44 (0)117-9087770.

PRODUCT NUMBER: 105

CAS NUMBER: 8000-66-6 / 85940-32-5

EC NUMBER: 288-922-1

INCI: Elettaria Cardamomum Seed Oil

IDENTIFIED USES: No additional data available.

BIOLOGICAL DEFINITION: Elettaria Cardamomum Seed Oil is the volatile oil obtained from the dried ripe seeds of *Elettaria cardamomum*, *Zingiberaceae*.

2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CAS: 8000-66-6 / 85940-32-5

EC: 288-922-1

CLASSIFICATION (EC 1272/2008)

PHYSICAL HAZARDS:

Flammable Liquid, Hazard Category 3 H226, Flammable liquid and vapour.

HEALTH HAZARDS:

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.
Aspiration Hazard Category 1 H304, May be fatal if swallowed and enters airways.

ENVIRONMENTAL HAZARDS:

Hazardous to the Aquatic Environment - Long-term Hazard Category 2 H411, Toxic to aquatic life with long lasting effects.

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.
H319, Causes serious eye irritation.
H411, Toxic to aquatic life with long lasting effects.



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PRECAUTIONARY STATEMENTS: 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.
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.
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.
P331, Do not induce vomiting.
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.

CONTAINS: -

3: COMPOSITION/INFORMATION ON INGREDIENTS

44.0% alpha-Terpineol acetate

CAS NUMBER: 80-26-2

EC NUMBER: 201-265-7

CLASSIFICATION (EC 1272/2008):

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32.0% Eucalyptol

CAS NUMBER: 470-82-6

EC NUMBER: 207-431-5

CLASSIFICATION (EC 1272/2008):

FL 3-SS 1B;H226-H317,-

8.0% Linalyl acetate

CAS NUMBER: 115-95-7

EC NUMBER: 204-116-4

CLASSIFICATION (EC 1272/2008):

SCI 2-EDI 2;H315-H319,-

5.0% Linalool

CAS NUMBER: 78-70-6

EC NUMBER: 201-134-4

CLASSIFICATION (EC 1272/2008):

SCI 2-EDI 2-SS 1B;H315- H317-H319,-

SDS: 105 Cardamom Oil

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3.5% d-Limonene

CAS NUMBER: 5989-27-5

EC NUMBER: 227-813-5

CLASSIFICATION (EC 1272/2008):

FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226-H304- H315-
H317-H410,-

3.0% alpha-Terpineol

CAS NUMBER: 98-55-5

EC NUMBER: 202-680-6

CLASSIFICATION (EC 1272/2008):

SCI 2-EDI 2;H315-H319,-

3.0% Myrcene

CAS NUMBER: 123-35-3

EC NUMBER: 24-622-5

CLASSIFICATION (EC 1272/2008):

FL 3-SCI 2-EDI 2-AH 1; H226-H304-H315-H319,-

2.5% alpha-Pinene

CAS NUMBER: 80-56-8

EC NUMBER: 201-291-9

CLASSIFICATION (EC 1272/2008):

FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226-H304- H315-
H317-H410,-

2.0% Geraniol

CAS NUMBER: 106-24-1

EC NUMBER: 203-377-1

CLASSIFICATION (EC 1272/2008):

SCI 2-EDI 1-SS 1;H315- H317-H318,-

1.5% Citral

CAS NUMBER: 5392-40-5

EC NUMBER: 226-394-6

CLASSIFICATION (EC 1272/2008):

SCI 2-EDI 2-SS 1B;H315- H317-H319,-

1.5% Nerolidol

CAS NUMBER: 7212-44-4

EC NUMBER: 230-597-5

CLASSIFICATION (EC 1272/2008):

EDI 2-EH A1-EH C1;H319- H410-

1.0% Terpinolene

CAS NUMBER: 586-62-9

EC NUMBER: 209-578-0

CLASSIFICATION (EC 1272/2008):

SS 1B-AH 1-EH A1-EH C1; H304-H317-H410,-

1.0% beta-Pinene

CAS NUMBER: 127-91-3

EC NUMBER: 204-872-5

CLASSIFICATION (EC 1272/2008):

FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226-H304- H315-
H317-H410,-

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

4: FIRST AID MEASURES

INHALATION:	Remove victim immediately from source of exposure. Get medical attention.
INGESTION:	Immediately call a POISON CENTER or doctor/physician.
SKIN CONTACT:	Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
EYE CONTACT:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:	May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

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5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED:	Carbon dioxide (CO ₂). Dry Chemical Powder. Foam.
SPECIAL HAZARDS ARISING FROM THE PRODUCT:	In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.
ADVICE FOR FIREFIGHTERS:	In case of insufficient ventilation, wear suitable respiratory equipment

6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.
ENVIRONMENT PRECAUTIONS:	Do not discharge into drains, water courses or onto the ground.
CLEANING UP METHODS FOR SPILLAGES:	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.

7: HANDLING AND STORAGE

USAGE PRECAUTIONS:	Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:	Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
SPECIFIC END USE(S):	Flavours, Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



APPROPRIATE ENGINEERING CONTROLS:	Provide adequate ventilation. Provide eyewash station.
EYE/FACE PROTECTION:	Wear protective eye protection/face protection
HAND PROTECTION:	Wear protective gloves.
OTHER SKIN AND BODY PROTECTION:	Wear apron or protective clothing in case of splashes. Wear appropriate clothing to prevent any possibility of skin contact.
HYGIENE MEASURES:	Use personal protection according to Directive 89/686/EEC. 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

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ENVIRONMENTAL EXPOSURE CONTROLS: Avoid discharging into drainage water. Only eliminate by authorised companies.

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.

9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Mobile liquid.
COLOUR:	Very pale straw yellow to brownish yellow.
ODOUR:	Characteristic.
FLASH POINT °C:	57
SPECIFIC GRAVITY @ 20°C (G/ML):	0.875 – 0.950
REFRACTIVE INDEX @ 20°C:	1.455 – 1.470
OPTICAL ROTATION (DEGREES):	+10.0 to +45.0
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	Insoluble.
AUTO-IGNITION TEMPERATURE (°C)	No additional data available.

10: STABILITY AND REACTIVITY

REACTIVITY:	Presents no significant reactivity hazard, by itself or in contact with water.
CHEMICAL STABILITY	Stable under the recommended handling and storage conditions.
POSSIBLE HAZARDOUS REACTIONS	Not expected under normal conditions of use.
CONDITIONS TO AVOID	Avoid extreme heat.
INCOMPATIBLE MATERIALS	Avoid contact with strong acids, alkalis or oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Not expected.

11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Assumed Toxicity Values: (LD50 or ATE) for Acute Oral Toxicity: 5907.01 (LD50 or ATE) for Acute Dermal Toxicity: 150000 (LC50 or ATE) for Acute Inhalation Toxicity: Not Available Inhalation Route: Not Available
SKIN CORROSION / IRRITATION	Causes skin irritation.
SERIOUS EYE DAMAGE / IRRITATION	Causes serious eye irritation.
RESPIRATORY OR SKIN SENSITISATION	May be fatal if swallowed and enters airways. May cause an allergic skin reaction.
GERM CELL MUTAGENICITY	No additional data available.
CARCINOGENICITY	No additional data available.

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REPRODUCTIVE TOXICITY	No additional data available.
STOT-SINGLE EXPOSURE	No additional data available.
STOT-REPEATED EXPOSURE	No additional data available.
ASPIRATION HAZARD	No additional data available.
PHOTO-TOXICITY	No additional data available.
OTHER INFORMATION	No additional data available.

12: ECOLOGICAL INFORMATION

ECOTOXICITY:	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:	This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.
PRECAUTIONS:	Do not allow product to enter streams, sewers or other waterways.

13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	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.
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14: TRANSPORT INFORMATION

UN No. ROAD:	UN 1169
UN No. SEA:	UN 1169
UN No. AIR:	UN 1169
PROPER SHIPPING NAME:	EXTRACTS, AROMATIC, LIQUID.
TRANSPORT HAZARD CLASS(ES):	
ADR/RID/ADN CLASS:	3
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



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

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.