



**AMPHORA AROMATICS
LIMITED**

essential oils, skincare & aromatherapy products

SAFETY DATA SHEET

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

PRODUCT NAME: **Camphor Essential Oil.**

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

PRODUCT NUMBER: 7

CAS NUMBER: 92201-50-8 / 8022-91-1 / 8008-51-3

EC NUMBER: 295-980-1

INCI: Cinnamomum Camphora Bark Oil

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

BIOLOGICAL DEFINITION: Cinnamomum Camphora Bark Oil is the volatile oil expressed, by steam distillation, from the bark of the Camphor, *Cinnamomum camphora* (L.), *Lauraceae*.

2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CAS: 92201-50-8 / 8022-91-1 / 8008-51-3

EC: 295-980-1

CLASSIFICATION (EC 1272/2008):

- PHYSICAL HAZARDS: Flam. Liq. 3 - H226
- HEALTH HAZARDS: Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Asp. Tox. 1 - H304
- ENVIRONMENTAL HAZARDS: Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD:

DANGER

HAZARD STATEMENTS:

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.
H304 May be fatal if swallowed and enters airways.



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PRECAUTIONARY STATEMENTS:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. 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 or shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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. 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 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:	Limonene, alpha- Pinene, para-Cymene, p-mentha-1,4-diene, beta-pinene, 7-methyl-3-methyleneocta-1,6-diene, Sabinene, alpha-Terpinolene, alpha-Phellandrene

3: COMPOSITION/INFORMATION ON INGREDIENTS

33 - 45% 1,8 Cineol

CAS NUMBER: 470-82-6

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 207-431-5

Flam. Liq. 3 - H226

Skin Sens. 1B - H317

8 - 36% 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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4 - 17% 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

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Asp. Tox. 1 - H304

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

1 – 7.0 % para- Cymene

CAS NUMBER: 99-87-6

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-796-7

Flam. Liq. 3 - H226

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Asp. Tox. 1 - H304

STOT SE 3 -H335

0.5 - 10% p-mentha-1,4-diene

CAS NUMBER: 99-85-4

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-794-6

Flam. Liq. 3 - H226

Asp. Tox. 1 - H304

0.7 - 9% 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

0.5 - 4% alpha- Phellandrene

CAS NUMBER: 99-83-2

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 202-72-5

Flam. Liq. 3 - H226

Asp. Tox. 1 - H304

0.5 - 8% 7-methyl-3-methyleneocta-1,6-diene (Myrcene)

CAS NUMBER: 123-35-3

M FACTOR (ACUTE) = 1

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 204-622-5

M FACTOR (CHRONIC) = 1

Flam. Liq. 3 - H226

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Asp. Tox. 1 - H304

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410



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0.1 - 12% Sabinene

CAS NUMBER: 3387-41-5

CLASSIFICATION (EC 1272/2008):

EC NUMBER: 222-212-4

Flam. Liq. 3 - H226

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Skin Sens. 1 - H317

STOT SE 3 - H335

Asp. Tox. 1 H304

0.09 - 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

0.02 – 3% 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

0.01 - 3% Terpinene-1-ol-4

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

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

4: FIRST AID MEASURES

INHALATION:

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention immediately.

INGESTION:

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Aspiration hazard if swallowed. Do not induce vomiting. Get medical attention immediately.

SKIN CONTACT:

Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.

EYE CONTACT:

Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes and get medical attention.



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5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED:	Carbon dioxide (CO ₂), dry chemical or foam
UNSUITABLE EXTINGUISHING MEDIA:	Full water jet.
SPECIAL HAZARDS ARISING FROM THE PRODUCT:	When heated to decomposition, emits acrid smoke as well as carbon monoxide and carbon dioxide.
ADVICE FOR FIREFIGHTERS:	
- PROTECTIVE ACTIONS DURING FIREFIGHTING:	Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus.
- SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:	Wear full protective clothing

6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.
ENVIRONMENT PRECAUTIONS: CLEANING UP METHODS FOR SPILLAGES:	Do not discharge into drains or watercourses or onto the ground Absorb with inert, non-combustible, inorganic absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite). Sweep up and remove to an approved disposal container. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.
REFERENCE TO OTHER SECTIONS	See Section 7 for information on safe handling See Section 8 for information on personal protection equipment See Section 13 for disposal information

7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. For personal protection, see Section 8. Do not eat, drink or smoke when using this product. Provide eyewash station.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
SPECIFIC END USE(S):	No additional data available.



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8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:

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, bw/day General population - Inhalation; Long term systemic effects: 1.74 mg/m ³ General population - Dermal; Long term systemic effects: 1 bw/day, mg/kg General population - Oral; Long term systemic effects: 600 bw/day, mg/kg
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 (Fresh water); Short term 1.425 mg/kg Sediment (Marine water); Short term 0.142 mg/kg Soil; Short term 0.25 mg/kg
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Alpha- Pinene (CAS: 80-56-8)	
DNEL	Workers - Inhalation; Long term systemic effects: 3.8 mg/m ³ Workers - Dermal; Long term systemic effects: 0.54 mg/kg, bw/day General population - Inhalation; Long term systemic effects: 0.67 mg/m ³ 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 (Fresh water); Short term 157 mg/kg Sediment (Marine water); Short term 15.7 mg/kg Soil; Short term 31.7 mg/kg
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Beta- Pinene (CAS: 127-91-3)	
DNEL	Workers - Inhalation; Long term systemic effects: 5.69 mg/m ³ Workers - Dermal; Long term systemic effects: 0.8 mg/kg, bw/day General population - Inhalation; Long term systemic effects: 1 mg/m ³ 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 (Fresh water); Short term 0.337 mg/kg Sediment (Marine water); Short term 0.034 mg/kg Soil; Short term 0.067 mg/kg



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7-methyl-3-methyleneocta-1,6-diene (CAS: 123-35-3)

DNEL	Workers - Dermal; Long term systemic effects: 0.83 mg/kg Workers - Inhalation; Long term systemic effects: 5.83 mg/m ³ General population - Dermal; Long term systemic effects: 0.42 mg/kg General population - Inhalation; Long term systemic effects: 1.25 mg/m ³
PNEC	STP; 0.2 mg/l Soil; 1.015 mg/kg Fresh water; 0.00028 mg/l marine water; 0.0008 mg/l Sediment (Fresh water); 5.022 mg/kg Sediment (Marine water); 0.502 mg/kg

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

DNEL	Workers - Inhalation; Long term systemic effects: 3.6 mg/m ³ Workers - Dermal; Long term systemic effects: 0.52 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 0.9 mg/m ³ General population - Dermal; Long term systemic effects: 0.26 bw/day, mg/kg
PNEC	General population - Oral; Long term systemic effects: 0.26 bw/day, mg/kg 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 (Fresh water); Short term 14.7 mg/kg Sediment (Marine water); Short term 14.7 mg/kg Soil; Short term 29.1 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 (Fresh water); 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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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.

Avoid contact with eyes. Wear approved safety goggles.

Use of chemical resistant clothing is recommended.

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

Use of chemical resistant clothing is recommended.

Wear appropriate protective clothing to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been exposed must be washed thoroughly.

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

9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Mobile liquid, colourless.

COLOUR:

Colourless to pale yellow.

ODOUR:

Characteristic.

RELATIVE DENSITY:

Approx. 0.890 @ 20°C

FLASH POINT (°C):

46

REFRACTIVE INDEX:

Approx. 1.469 @ 20°C

MELTING POINT (°C):

< -20

BOILING POINT (°C):

155 – 172 @ 1012 hPa.

VAPOUR PRESSURE:

200 Pa @ 25°C

SOLUBILITY IN WATER @20°C:

Slightly soluble in water. 0.1-100 mg/L

AUTO-IGNITION TEMPERATURE (°C):

REACH dossier information. The auto ignition temperature of the test substance was measured according to EU A.15/DIN 51794 guideline. Three main tests were performed, the relevant parameters were recorded, and results ranged between 254 and 255°C. The lowest result, rounded down to 5°C, i.e., 250°C is retained.



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10: STABILITY AND REACTIVITY

REACTIVITY:	Presents no significant reactivity hazards. No reaction known with water.
CHEMICAL STABILITY:	Chemically stable material under the recommended storage and handling conditions.
POSSIBLE HAZARDOUS REACTIONS:	Not expected under normal conditions of use.
CONDITIONS TO AVOID:	Avoid heat, flames and other sources of ignition.
INCOMPATIBLE MATERIALS:	Avoid contact with strong acids, alkalis or oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Liable to cause smoke and acrid fumes during combustion: carbon monoxide, carbon dioxide and other non-identified organic compounds may be formed.

11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Not classified (Calculation method).
SKIN CORROSION / IRRITATION:	Causes skin irritation.
SERIOUS EYE DAMAGE / IRRITATION:	Causes serious eye irritation.
RESPIRATORY OR SKIN SENSITISATION:	May cause an allergic skin reaction.
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 harmful 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:	No additional data available.
BIOACCUMULATIVE POTENTIAL:	REACH dossier information. Partition coefficient, Log Kow, of the substance Sabinene (CAS 3387-41-5), has been calculated by the model iSafeRat® HA-QSAR toolbox v1.1. Calculation was performed from the input SMILES of Sabinene,, and Sabinene falls inside the Applicability Domain of the model. Therefore, the Log Kow value of Sabinene is 4.64. Sabinene cannot be excluded as potential Bioaccumulative in a PBT context.
MOBILITY IN SOIL:	No additional data available.
RESULTS OF PBT AND VPVB ASSESSMENT:	No additional data available.
PRECAUTIONS:	Dispose of waste product or used containers in accordance with local regulations.

13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Dispose of waste product or used containers in accordance with local regulations.
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14: TRANSPORT INFORMATION

UN No. ROAD: 1130
UN No. SEA: 1130
UN No. AIR: 1130
PROPER SHIPPING NAME: CAMPHOR OIL

TRANSPORT HAZARD CLASS(ES):

- ADR/RID/ADN CLASS: 3
- IMDG CLASS: 3
- ICAO CLASS: 3



PACKING GROUP:

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

ENVIRONMENTAL HAZARDS: Environmentally Hazardous Substance/Marine Pollutant



SPECIAL PRECAUTIONS FOR USER

- EMS: F-E, S-E
- 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:

Packed and transferred according to transport regulations

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).



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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. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. 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.
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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.