



**AMPHORA AROMATICS  
LIMITED**

**essential oils, skincare & aromatherapy products**

**SAFETY DATA SHEET**

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

PRODUCT NAME: Pine Essential Oil

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

PRODUCT NUMBER: 44

CAS NUMBER: 8023-99-2 / 84012-35-1

EC NUMBER: 281-679-2

INCI: Pinus Sylvestris Leaf Oil

IDENTIFIED USES: Perfumes, fragrances

BIOLOGICAL DEFINITION: Pinus Sylvestris Leaf Oil is the volatile oil obtained from the needles of the Scotch Pine, Pinus sylvestris L., Pinaceae.

**2: HAZARDS IDENTIFICATION**

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CAS: 8023-99-2 / 84012-35-1

EC: 281-679-2

CLASSIFICATION (EC 1272/2008):

PHYSICAL HAZARDS:

Flam. Liq. 3 - H226

HEALTH HAZARDS:

Asp. Tox. 1 - H304

Skin Irrit. 2 – H315

Skin Sens. 1B - H317

ENVIRONMENTAL HAZARDS:

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.

PRECAUTIONARY STATEMENTS:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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/physician.

P302+P352 IF ON SKIN: Wash with plenty of water.

P331 Do NOT induce vomiting.

P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.



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P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with  
local/regional/national/international regulations.

CONTAINS:

alpha-Pinene, Beta-Pinene, delta-3-Carene, Myrcene, Terpinolene

**3: COMPOSITION/INFORMATION ON INGREDIENTS**

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**35 - 55% alpha-Pinene**

CAS NUMBER: 80-56-8

CLASSIFICATION (1272/2008):

EC NUMBER: 201-291-9

Flam. Liq. 3 - H226

Asp. Tox. 1 - H304

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Aquatic Acute 1 – H400

Aquatic Chronic 1 – H410

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**8 - 24% beta-Pinene**

CAS NUMBER: 127-91-3

CLASSIFICATION (1272/2008):

EC NUMBER: 204-872-5

Flam. Liq. 3 - H226

Asp. Tox. 1 - H304

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Aquatic Acute 1 – H400

Aquatic Chronic 1 – H410

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**10 - 20% delta-3-Carene**

CAS NUMBER: 13466-78-6

CLASSIFICATION (1272/2008):

EC NUMBER: 236-719-3

Flam. Liq. 3 – H226

Asp. Tox. 1- H304

Skin Irrit. 2 – H315

Skin Sens. 1 – H317

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**4 - 12% d, l - Limonene**

CAS NUMBER: 7705-14-8

CLASSIFICATION (1272/2008):

EC NUMBER: 231-732-0

Flam. Liq. 3 – H226

Skin Irrit 2 – H315

Skin Sens. 1 – H317

Aquatic Acute 1 – H400

Aquatic Chronic 1 – H410

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**1.5 – 10% Myrcene**

CAS NUMBER: 123-35-3

CLASSIFICATION (1272/2008):

EC NUMBER: 204-322-5

Flam. Liq. 3 – H226

Asp. Tox. 1 – H304

Skin Irrit. 2 – H315

Skin Sens. 1B – H317

Eye Irrit. 2 – H319

Aquatic Acute 1 – H400

Aquatic Chronic 1 – H410

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**0.4 - 6% Camphene**

CAS NUMBER: 79-92-5

CLASSIFICATION (1272/2008):

EC NUMBER: 201-234-8

Flam. Sol. 1 – H228

Eye Irrit 2 – H319

Aquatic Acute 1 – H400

Aquatic Chronic 1 – H410

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**0.1 – 4% Terpinolene**

CAS NUMBER: 586-62-9

CLASSIFICATION (1272/2008):

EC NUMBER: 209-578-0

Asp. Tox. 1 – H304

Skin Sens. 1 – H317

Aquatic Acute 1 – H400

Aquatic Chronic 1 – H410

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

**4: FIRST AID MEASURES**

INHALATION:

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

INGESTION:

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTRE.

SKIN CONTACT:

Wash with plenty of soap and water.

EYE CONTACT:

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

MOST IMPORTANT SYMPTOMS AND EFFECTS,  
BOTH ACUTE AND DELAYED:

Observe risk of aspiration if vomiting occurs.

INDICATION OF ANY IMMEDIATE MEDICAL

Treat symptomatically.

ATTENTION AND SPECIAL TREATMENT NEEDED:

**5: FIREFIGHTING MEASURES**

EXTINGUISHING MEDIA RECOMMENDED:

Carbon dioxide (CO<sub>2</sub>). Powder. Foam. Water spray.

UNSUITABLE EXTINGUISHING MEDIA:

Full water jet.

SPECIAL HAZARDS ARISING FROM THE  
PRODUCT:

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products: Carbon monoxide and Carbon dioxide.

ADVICE FOR FIREFIGHTERS:

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance. Respiratory protection. Self-protection of the first aider.



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**6: ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS, PROTECTIVE  
EQUIPMENT AND EMERGENCY PROCEDURES:

Use personal protective equipment as required. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Avoid contact with skin and eyes. Open windows, door, to allow sufficient ventilation. If this is not possible employ a fan to increase air exchange. Follow emergency procedures such as the need to evacuate the danger area or to consult an expert.

FOR NON-EMERGENCY PERSONNEL: Remove persons to safety  
FOR EMERGENCY RESPONDERS: Wear breathing apparatus if  
exposed to vapours, dust, spray  
or gases.

ENVIRONMENT PRECAUTIONS:

Do not discharge into drains, water courses or onto the ground.  
Contain spillages.

CLEANING UP METHODS FOR SPILLAGES:

Contain spill by covering drains and use absorbent materials.  
Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage:  
Sawdust, Kieselgur (diatomite), Sand, Universal binder. Place in  
appropriate containers for disposal. Ventilate affected area.

REFERENCE TO OTHER SECTIONS:

Hazardous combustion products: see section 5. Personal protective  
equipment: see section 8. Incompatible materials: see section 10.  
Disposal considerations: see section 13.

**7: HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING:**

MEASURES TO PREVENT FIRE AS WELL AS  
AEROSOL AND DUST GENERATION:

Use local and general ventilation. Avoidance of ignition sources.  
Keep away from sources of ignition - No smoking. Take  
precautionary measures against static discharge. Use only in well-  
ventilated areas. Due to danger of explosion, prevent leakage of  
vapours into cellars, flues and ditches. Ground/bond container and  
receiving equipment. Use explosion-proof  
electrical/ventilating/lighting equipment. Use only non-sparking  
tools.

SPECIFIC NOTES/DETAILS:

Places which are not ventilated, e.g. unventilated below ground  
level areas such as trenches, conduits and shafts, are particularly  
prone to the presence of flammable substances or mixtures.  
Vapours are heavier than air, spread along floors and form  
explosive mixtures with air. Vapours may form explosive mixtures  
with air. Do not breathe gas/fumes/vapour/spray.

ADVICE ON GENERAL OCCUPATIONAL HYGIENE:

Wash hands after use. Do not eat, drink and smoke in work areas.  
Never keep food or drink in the vicinity of chemicals. Never place  
chemicals in containers that are normally used for food or drink.  
Keep away from food, drink and animal feed stuffs.



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#### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

##### -MANAGING OF ASSOCIATED RISKS:

- EXPLOSIVE ATMOSPHERES

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Store at temperatures not exceeding 25°C. Keep cool. Protect from sunlight.

- FLAMMABILITY HAZARDS:

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight. Keep container tightly closed in a cool place.

- VENTILATION REQUIREMENTS:

Use local and general ventilation. Ground/bond container and receiving equipment

##### PACKAGING COMPATIBILITIES:

Only packaging which is approved (e.g. acc. to ADR) may be used.

#### **8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

##### PROTECTIVE EQUIPMENT:



##### PROCESS CONDITIONS:

Provide eyewash station.

##### ENGINEERING MEASURES:

Provide adequate ventilation.

##### RESPIRATORY EQUIPMENT:

In case of inadequate ventilation wear respiratory protection.

##### HAND PROTECTION:

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak tightness/permeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### EYE PROTECTION:

Wear approved safety goggles according to EN166.

##### OTHER PROTECTION:

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

##### HYGIENE MEASURES:

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

##### PERSONAL PROTECTION:

Avoid contact with skin and eyes. Avoid inhalation of vapours.

##### SKIN PROTECTION:

Wear apron or protective clothing in case of splashes.

##### ENVIRONMENTAL EXPOSURE CONTROLS:

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



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**9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE:	Mobile Liquid
COLOUR:	Colourless to slight yellow
ODOUR:	Characteristic
RELATIVE DENSITY:	Approx. 0.866 @ 20°C
FLASH POINT (°C):	37
REFRACTIVE INDEX:	Approx. 1.470 @ 20°C
MELTING POINT (°C):	No additional data available.
BOILING POINT (°C):	169.4 @ 101.325 kPa
VAPOUR PRESSURE:	No additional data available.
SOLUBILITY IN WATER @20°C:	Insoluble in water.
AUTO-IGNITION TEMPERATURE (°C):	No additional data available.

**10: STABILITY AND REACTIVITY**

REACTIVITY:	Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition. If heated – risk of ignition.
CHEMICAL STABILITY:	See below "Conditions to avoid".
POSSIBLE HAZARDOUS REACTIONS:	No hazardous reactions at proper usage and handling.
CONDITIONS TO AVOID:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Temperatures more than room temperature will benefit the transfer from liquid to vapour phase and formation of explosive atmospheres. Storing the product in open containers will benefit the formation of peroxides and derogate the quality. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
INCOMPATIBLE MATERIALS:	Oxidisers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

**11: TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY:	Not classified as acutely toxic. LD50 (Oral) 5000mg/kg (rat) source: literature.
SKIN CORROSION / IRRITATION:	Causes skin irritation
SERIOUS EYE DAMAGE / IRRITATION:	Not classified as seriously damaging to the eye or eye irritant. Basis of test data: Eye irritation: no adverse effect observed (not irritating) [RA 90082-75-0, Eye irritation (in vitro), Warren, 2013, RS, K]; negative BCOPT on another substance which has a similar composition.
RESPIRATORY OR SKIN SENSITISATION:	Skin - May cause an allergic skin reaction.
GERM CELL MUTAGENICITY:	Not classified as germ cell mutagenic.
CARCINOGENICITY:	Not classified carcinogenic.
REPRODUCTIVE TOXICITY:	Not classified as reproductive toxicant.



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STOT-SINGLE EXPOSURE:	Not classified as a specific target organ toxicant (single exposure).
STOT-REPEATED EXPOSURE:	Not classified as a specific target organ toxicant (repeated exposure).
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:	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:**

WASTE TREATMENT-RELEVANT INFORMATION:	This material and its container must be disposed of as hazardous waste. Assign arising waste to a waste code according to the national list of waste.
SEWAGE DISPOSAL:	Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.
WASTE TREATMENT OF CONTAINERS/PACKAGES:	It is a dangerous waste; only packaging which is approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

**14: TRANSPORT INFORMATION**

UN No. ROAD:	1272
UN No. SEA:	1272
UN No. AIR:	1272
PROPER SHIPPING NAME:	Pine Oil

**TRANSPORT HAZARD CLASS(ES):**

- ADR/RID/ADN CLASS:	3 FLAMMABLE LIQUID
- ADR/RID/AND CLASSIFICATION CODE	F1
- IMDG CLASS:	3 FLAMMABLE LIQUID
- ICAO CLASS/DIVISION	3 FLAMMABLE LIQUID



**PACKING GROUP:**

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



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ENVIRONMENTAL HAZARDS:

Environmentally hazardous  
substance/marine pollutant.



SPECIAL PRECAUTIONS FOR USER:

**ADR/RID/ADN**

Excepted quantities (EQ) E1  
Limited quantities (LQ) 5 L  
Transport category (TC) 3  
Tunnel restriction code (TRC) D/E  
Hazard identification No 30  
Emergency Action Code 3Y

**IMDG**

Excepted quantities (EQ) E1  
Limited quantities (LQ) 5 L  
EmS F-E, S-E

**ICAO – IATA/DGR**

Excepted quantities (EQ) E1  
Limited quantities (LQ) 10 L

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.  
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.

**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.