



**AMPHORA AROMATICS
LIMITED**

essential oils, skincare & aromatherapy products

SAFETY DATA SHEET

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

PRODUCT NAME: Tea Tree Essential Oil

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

PRODUCT NUMBER: 51

CAS NUMBER: 85085-48-9 / 68647-73-4

EC NUMBER: 285-377-1

INCI: Melaleuca alternifolia oil

IDENTIFIED USES: Topical antibacterial, antiseptic and anti-inflammatory agent.

2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CAS: 85085-48-9 / 68647-73-4

EC: 285-377-1

CLASSIFICATION (EC 1272/2008):

- | | |
|--------------------------|--|
| - PHYSICAL HAZARDS: | Flammable liquids 3 |
| - HEALTH HAZARDS: | Acute toxicity 4
Acute inhalation 4
Skin irritation 2
Aspiration toxicity 1 |
| - ENVIRONMENTAL HAZARDS: | Aquatic chronic 2 |

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.
H332 Harmful if inhaled.
H411 Toxic to aquatic life with long lasting effects.



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PRECAUTIONARY STATEMENTS:

P210: Keep away from heat/sparks/open flames/hot surfaces. -No Smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P242: Use only non-sparking tools.

P241: Use explosion proof electrical/venting/lighting equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing fumes, mist or vapours.

P270: Do not eat, drink or smoke when using this product.

P264: Wash thoroughly after handling.

P280: Wear protective gloves//protective clothing/eye protection/face protection.

P301 + P312: IF SWALLOWED immediately call a POISON CENTRE or doctor/physician if you feel unwell.

P302+P361+P353: IF ON SKIN (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338: IF IN EYES: Rinse cautiously for several minutes, remove contact lenses if present & easy to do, continue rinsing.

P313+P317: If eye irritation persists get medical attention.

P330: Rinse mouth.

P331: Do NOT induce vomiting.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P370+ P378: In case of fire: Use Carbon dioxide, foam, dry chemical for extinction.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P362 + P364: Take off contaminated clothing and wash it before reuse,

P391: Collect spillage.

P403+P235: Store in a well-ventilated place, keep cool.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

3: COMPOSITION/INFORMATION ON INGREDIENTS

100% Tea Tree Oil

CAS NUMBER: 85085-48-9 / 68647-73-4

EC NUMBER: 285-377-1

CHEMICAL IDENTITY: Oil of Melaleuca, Terpinen-4-ol type

CLASSIFICATION (EC 1272/2008):

H226 - Flammable liquid 3

H302 - Acute toxicity 4

H304 - Acute inhalation 4

H315 - Skin Irritation 2

H332 - Aspiration toxicity 1

H411 - Aquatic Chronic 2.

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



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4: FIRST AID MEASURES

INHALATION:	If fumes or vapours are inhaled, or breathing difficulty is experienced, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek immediate medical attention if breathing difficulty persists.
INGESTION:	If the chemical is swallowed, call a physician or poison control centre for the most current information. If no professional advice is available, DO NOT induce vomiting, rinse the mouth. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions or who cannot swallow. Victims of chemical exposure must be taken for medical attention. Take a copy of the label and this SDS with the victim to a health professional.
SKIN CONTACT:	Wash contacted area thoroughly with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Seek medical attention if irritation develops.
EYE CONTACT:	Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

SYMPTOMS CAUSED BY EXPOSURE:

- Human adult: Hallucination, distorted perception, coma, diarrhoea, allergic dermatitis.
- Human child: Hallucination, distorted perception, sleep, ataxia, coma, somnolence, diarrhoea.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Pre-existing skin, eye or respiratory problems may be aggravated by prolonged contact.

NOTES FOR THE DOCTOR:

Treat symptoms and eliminate exposure.

5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA RECOMMENDED:	Carbon dioxide, foam, dry chemical, halon or water fog/ mist.
UNSUITABLE EXTINGUISHING MEDIA:	Do not use full water jet.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	This product is flammable & vapours may travel some distance and flash back if ignited.
EXPLOSION SENSITIVITY TO MECHANICAL IMPACT:	Not sensitive.
EXPLOSION SENSITIVITY TO STATIC DISCHARGE:	Sensitive.
SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE:	May produce toxic fumes of carbon monoxide and/or carbon dioxide and hydrocarbons if burning.
SPECIAL FIREFIGHTING PROCEDURES:	Incipient fire responders should wear eye protection. Structural fire fighters must wear self-contained breathing apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise keep containers cool with carefully applied water spray/mist. If possible, prevent runoff water from entering storm drains, bodies of water or other environmentally sensitive areas.



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6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Proper protective equipment should be used (see Section 8: Personal Protection). Personnel should be trained for spill response operations.

ENVIRONMENT PRECAUTIONS:

Prevent run-off into drains and waterways. Decontaminate area thoroughly. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State and Local procedures (see Section 13).

CLEANING UP METHODS FOR SPILLAGES:

Contain spilled material using poly-pads or other suitable absorbent material. Avoid generating mists or sprays. Place all spill residues in an appropriate container and seal. Ventilate area and wash spill area after material pickup is complete.

7: HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES:

Read all labels before use. As with all chemicals; avoid getting this product on you or in you. Wear personal protective equipment (see Section 8) and wash thoroughly after handling this product. Do not eat, drink, smoke or apply cosmetics while handling this product. Avoid breathing mists or sprays generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

STORAGE AND HANDLING PRACTICES:

Observe all Federal and State regulations pertaining to the storage and handling of flammable liquids. Store in a cool, dry, well ventilated area away from direct sunlight. Keep containers tightly closed when not in use. Store away from sources of heat or ignition (sparks, open flame, hot surfaces). Store away from incompatible materials (oxidising agents and acids). Inspect regularly for damage and leaks. Take precautionary measures against static discharge: Ground container and receiving equipment, use only non-sparking tools and use explosion-proof electrical and other equipment.

This product is listed in the Australian Scheduling of Drugs and Poisons as a Schedule 6 Poison; storage and handling procedures must be in accordance with the relevant regulations.



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8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

Tea Tree Oil 85085-48-9 or 68647-73-4 Not classified

PROTECTIVE EQUIPMENT:



APPROPRIATE ENGINEERING CONTROLS:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below.

EYE/FACE PROTECTION:

Splash goggles or safety glasses with side shields are recommended. If necessary, refer to US OSHA Standard 29 CFR 1910.133, the European Standard EN 166, the appropriate Australian Standards, Canadian Standards, or the relevant Japanese Standards.

HAND PROTECTION:

Compatible protective gloves are recommended. Wash hands after removing gloves. If necessary, refer to US OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Australian Standards, Canadian Standards, or the relevant Japanese Standards.

OTHER SKIN AND BODY PROTECTION:

Use body protection appropriate to the task. Coveralls, rubber aprons or chemical protective clothing made from natural rubber are generally acceptable depending on the task. If a hazard of injury to the feet exists due to falling objects, rolling objects or where objects may pierce the soles of the feet or where an employee's feet may be exposed to electrical hazards, use foot protection in accordance with US OSHA 29 CFR 1910.136. If necessary refer to the appropriate Australian Standards, Canadian Standards, or the relevant Japanese and European Standards

HYGIENE MEASURES:

If exposure limits are exceeded, use only respiratory protection authorised in the US Federal OSHA Respiratory Standard 29 CFR 1910.134, equivalent US State standards, Canadian CSA Standard Z94.4-93, the European Standard EN 149 or equivalent EU member State Standards.

RESPIRATORY PROTECTION:

If exposure limits are exceeded, use only respiratory protection authorised in the US Federal OSHA Respiratory Standard 29 CFR 1910.134, equivalent US State standards, Canadian CSA Standard Z94.4-93, the European Standard EN 149 or equivalent EU member State Standards.



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9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Colourless to pale yellow liquid
ODOUR:	Myrtistic, characteristic
Freezing point:	-22 °C
BOILING POINT/RANGE:	97 °C – 220 °C
FLASH POINT:	59 °C (Penksey-Martin closed cup)
FLAMMABILITY:	55 °C (Cleveland open cup)
SPECIFIC GRAVITY @ 20°C:	0.885-0.906
REFRACTIVE INDEX @ 20°C:	1.475 – 1.482
SOLUBILITY @ 20°C:	Insoluble in water, 1 part miscible with 2 parts ethanol (85% v/v)
PARTITION COEFFICIENT:	Log ₁₀ P _{ow} = 3.4 – 5.5
AUTO-IGNITION TEMP:	269 °C
VISCOSITY (KINEMATIC):	2.86 mm ² /s at 20 °C and 1.71 mm ² /s at 40 °C
VISCOSITY (DYNAMIC):	2.54 mPa.s at 40 °C & 1.52 mPa.s at 40 °C
RELEASE OF INVISIBLE FLAMMABLE VAPOURS AND GASES:	This product is flammable & vapours may travel some distance and flash back if ignited.

10: STABILITY AND REACTIVITY

REACTIVITY:	None known.
CHEMICAL STABILITY:	Stable under ordinary conditions of use and storage.
CONDITIONS TO AVOID:	Excessive heat, sparks, flames and other sources of ignition.
INCOMPATIBLE MATERIALS:	Strong oxidising or reducing agents. Protect from air.
HAZARDOUS DEPOLYMERISATION:	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS:	When heated, decomposition may produce hydrocarbons, CO and/or CO ₂ .

11: TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE AND SYMPTOMS RELATED TO EXPOSURE

- INHALATION: Potential irritant. Over-exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.
- SKIN CONTACT: Causes skin irritation. May cause erythema, irritation or oedema if oil is oxidised. Repeated or prolonged skin contact may lead to allergic contact dermatitis in sensitised individuals.
- INGESTION: May be fatal if swallowed or enters airways. May result in allergic dermatitis, hallucination, ataxia, diarrhoea, central nervous system depression, sleep or coma.

MEASURES OF TOXICITY:

- ACUTE ORAL TOXICITY: Oral LD50 rat 1900 mg/Kg
- SKIN CORROSION/IRRITATION: Dermal LD50 rabbit: >5000 mg/Kg
- EYE DAMAGE/IRRITATION: HET-CAM: Mild irritant
- DERMAL TOXIC DOSE: Feline 5-7 mL/Kg
- DERMAL TOXIC DOSE: Canine: 0.143 – 0.164 g/Kg
- DERMAL TOXIC DOSE: Human adult: > 25% (in white paraffin applied for 21 days)
- ORAL TOXIC DOSE: Human adult: 0.5 – 1.0 mL/Kg after repeat low dose exposure
- ORAL TOXIC DOSE: Human child: 0.5 mL/Kg



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TOXIC EFFECTS:

- RAT: Somnolence, muscle weakness, ataxia, partial paralysis.
- FELINE: Ataxia, change to leukocyte count.
- CANINE: Somnolence, ataxia, partial paralysis.
- HUMAN ADULT: Hallucination, distorted perception, coma, diarrhoea, allergic dermatitis.
- HUMAN CHILD: Hallucination, distorted perception, sleep, ataxia, coma, somnolence, diarrhoea.

SENSITISATION POTENTIAL:

- SKIN: Low
- EYE: Category 2B for reversible eye effects

GERM CELL MUTAGENICITY:

Not mutagenic as determined by the Ames test.

CARCINOGENICITY:

The components of this product are not listed by agencies tracking the carcinogenic potential of chemical compounds as follows:

NTP Regulated: No

IARC Regulated: No

OSHA Regulated: No

REPRODUCTIVE TOXICITY:

- MUTAGENICITY: The components of this product are not reported to produce mutagenic effects in humans.
- EMBRYOTOXICITY: The components of this product are not reported to produce embryotoxic effects in humans.
- TERATOGENICITY: The components of this product are not reported to produce teratogenic effects in humans.
- REPRODUCTIVE TOXICITY: The components of this product are not reported to produce reproductive effects in humans.

STOT: SINGLE EXPOSURE:

No valid data

STOT: REPEATED EXPOSURE:

No valid data

ASPIRATION HAZARD:

No valid data

12: ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY:

Not acutely toxic to fish LC50 > 100 mg/L (OECD 203).

ENVIRONMENTAL FATE:

May cause adverse side effects in an aquatic environment, biodegradable in seawater.

PERSISTENCE AND DEGRADABILITY:

This product is readily biodegradable (OECD 301F).

MOBILITY IN SOIL:

No data available.

OTHER ADVERSE EFFECTS:

None known.

13: DISPOSAL CONSIDERATIONS

PREPARING WASTE FOR DISPOSAL:

Waste disposal must be in accordance with the appropriate Australian Federal, State and Local regulations as well as those of Canada, USA, EU Member States and Japan

DISPOSAL METHODS:

Dispose of containers and small amounts at an approved landfill site. For larger quantities contact a licensed professional waste disposal service.

PRECAUTIONS:

Prevent contamination of drains and/or waterways.



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14: TRANSPORT INFORMATION

UN No.: 2319
PROPER SHIPPING NAME: TERPENE HYDROCARBONS, N.O.S. (Tea Tree Oil)
TRANSPORT HAZARD CLASS(ES): Flammable liquids category 3



PACKING GROUP: III
ENVIRONMENTAL HAZARDS: May cause adverse effects in aquatic environments. This product is biodegradable.



EMERGENCY ACTION CODE: 3YE
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE: Not classified.

15: REGULATORY INFORMATION

EU LEGISLATION: This material is listed on the European Inventory of Existing Chemical Substances (EINCS).
CLP Regulation (EC) 1271/2008 classified as a substance of "Unknown or Variable composition, Complex reaction products or Biological materials" (UVCB substance).

16: OTHER INFORMATION

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.