

Tea Tree

SHIRLEY PRICE AROMATHERAPY LTD The Old Factory 8 Hawley Road, Hinckley,
Leicestershire LE100PR Tel: 01455 615466

MATERIAL SAFETY DATA SHEET

ACCORDING TO EC LEGISLATION 91/155/E EC

Date created: August 2002

Date revised: June 2005

1. Identification:

Commercial name: Tea Tree essential oil.
Botanical Nomenclature: *Melaleuca alternifolia*.
INCI name: *Melaleuca alternifolia*.
CAS number: 68647-73-4
EINECS CAS number: 85085-48-9
EEC Number: 285-377-1

2. Composition:

Main components: Terpinen-4-ol, α -terpinene, β -terpinene, Terpinolene, p-cymene, D-terpineol, D-pinene, Limonene, cis-calamanene, Viridiflorine, β -gurjunene.
Additives (e.g. carriers, preservatives, antioxidants): NIL.

3. Potential Health Hazards:

Inhalation: None identified.
Skin: Concentrated liquid and vapours irritating to skin by prolonged exposure.
Eyes: Irritating to eyes with possible damage.
Ingestion: Harmful if swallowed.

4. First aid:

Inhalation: If discomfort is felt, remove person to a well ventilated area with plenty of fresh air.
Skin: Remove contaminated clothing. Wash affected area with plenty of soap and water.
Eyes: Flush immediately with plenty of cool water for 10 to 20 minutes. Seek medical advice from a Medical Doctor.
Ingestion: Seek immediate medical care.

5. In case of fire:

Extinguishing Media: Foam, Carbon dioxide.
Do not use: Water.
Special precautions: wear breathing apparatus as toxic vapours may be released during fire.

6. Spill and Leak Procedure:

Individual precautions: Eliminate sources of ignition. Keep area well ventilated and isolate the spill.
Environmental protection: Prevent the liquid from entering the drains and sewers.
Cleaning methods: Soak up the spill using inert absorbents. For large spills use pumps.

7. Handling and storage:

Store in a cool, dry and dark place in suitable containers (aluminium cans or lacquer lined steel drums).
Handle in a well ventilated area.
Keep away from sources of heat and ignition.

8. Personal Protection / Exposure control:

Respiratory protection: wear breathing apparatus when working in an area of high vapour concentration.
Skin protection: Use protective gloves. Wear protective clothing when possibility exists of contact.
Eye protection: Goggles should be worn.

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General precautions: Use good industrial hygiene practise.

Clear to faintly yellow oil

9. Physiochemical properties:

Appearance:

Odour:

Neutral

Fresh, Eucalyptus-type, herbaceous,
antiseptic

pH:

Not available

Boiling point:

57°C to 61°C

Flash point:

Autoignition Temperature:

Not available

Not available

Explosion Limits:

Vapour pressure (25°C):

Not available

>1 (air=1)

Vapour Density:

Specific Gravity (20°C):

0.895 to 0.905

Optical Rotation (20°C):

+6.5 - +9.5

Refractive Index (20°C):

1.476 to 1.481

Solubility in water (20°):

Negligible

Partition Coefficient log P o/w:

Not available

Evaporation rate:

<1 (Butyl Acetate=1)

10. Stability and Reactivity:

Chemical stability: Stable.

Conditions to avoid: Normally stable. Not reactive with water.

Hazardous Decomposition Products: Not available.

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11. Sensitisers:
Limonene 4%, total 4%

12. Toxicological Information:
According to RIFM- Monograph:
Acute Toxicity: Oral LD50: Not available
Dermal LD50: Not available
Irritation:

4% in petrolatum produced no irritation after 48hr closed patch test on human subjects.

Sensitisation:

A maximisation test carried out on 25 volunteers with 4% in petrolatum produced no sensitisation reactions.

Phototoxicity:

No phototoxic effects were reported for undiluted oil on hairless mice and swine.

13. Ecotoxicological information:
Fish Toxicity: LCO/EC50: Not available.
Bacteriotoxicity: ECO/EC50: Not available.

14. Sensitisers:
Limonene 4%

15. Disposal Method:
Check Federal, State and Local Regulations.

16. Transport Information:
UN Number 1993: Proper shipping name: Flammable Liquid N.O.S.
Hazard Class: 3.3 Packing group: III
Transport Safety: Air (ATA/ICAO)
2/PAX309/CA310/III

Sea (IMDG-Code): 3.3/III

Rail (RID): 3.31c

Road (ADR): 3.31c

17. Regulatory Information
The British Essential Oil Association Chip Regulations 2002

Hazard Symbols: Xn
Risk Phrases:

R10,22,38,65

50

H/C %:

Safety Phrases:

S62

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Tea Tree

TO
DETERMINE SAFE CONDITIONS FOR USE AND TO ASSUME LIABILITY FOR LOSS, INJURY,
DAMAGE OR
EXPENSE RESULTING FROM IMPROPER USE OF THIS PRODUCT.

FOR AND ON BEHALF OF SHIRLEY PRICE AROMATHERAPY LTD:
P.I Brealey..... (MANAGING DIRECTOR)
DATE: