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MATERIAL SAFETY DATA SHEET

Product Name: **Tea Tree oil**

Botanical Name: **Melaleuca alternifolia**

Country of Origin: **Australia**

Family: Myrtaceae

Section 1. Composition/Information of Ingredients

Method of Extraction: Obtained by steam distillation from the leaves and twigs of Melaleuca alternifolia L.

CAS No: 85085-48-9/68647-73-4

FEMA: 3902

H-No: 3301.11

CoE: 275

FDA:

RIFM: monograph

IFRA:

EINECS: 285-377-1

Status: natural

FFCIV: official

Section 2. Hazards Identification

Xn. Harmful

R10 Flammable

Section 3. First Aid Measures

INHALATION: Remove to fresh air. Keep at rest. Obtain medical attention.

EYE CONTACT: Rinse immediately with plenty of water for at least 15 mins. Contact a doctor if symptoms persist.

SKIN CONTACT: Remove contaminated clothes. Wash thoroughly with soap and water, flush with plenty of water. If irritation persists, seek medical advice.

INGESTION: Rinse mouth out with water. Seek medical advice immediately.

OTHER: When assessing action take Risk & Safety Phrases into account (Section 15).

Section 4. Fire Fighting Measures

EXTINGUISHING MEDIA RECOMMENDED: Use CO₂, Dry Powder or Foam type of extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.

SPECIAL MEASURES: Avoid vapor inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing. Avoid strong oxidizing agents.

EXTINGUISHING PROCEDURES: Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

Section 6. Accidental Release Measures

PERSONAL PRECAUTIONS: Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (safety glasses, water-proof boots, suitable protective clothing) in case of major spillages.

ENVIRONMENT PRECAUTIONS: Keep away from drains, soils, surface & groundwaters.

CLEANING UP METHODS FOR SPILLAGE: Remove all potential ignition sources. Contain spilled material. Cover with an inert or non-combustible inorganic absorbent material, or sweep up and remove to an approved disposal container. Observe state, federal & local disposal regulations.

Section 7. Handling & Storage

PRECAUTIONS IN HANDLING: Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.

STORAGE CONDITIONS: Store in tightly closed original container, in a cool, dry and ventilated area away from heat sources & protected from light. Keep air contact to a minimum.

FIRE PROTECTION: Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

Section 8. Exposure Controls/Personal Protection

RESPIRATORY PROTECTION: Avoid breathing product vapor. Apply local ventilation where possible.

VENTILATION: Ensure good ventilation of working area.

HAND PROTECTION: Avoid all skin contact. Use chemically resistant gloves if required.

EYE PROTECTION: Use safety glasses.

WORK/HYGIENE PRACTICES: Wash hands with soap & water after handling.

Section 9. Physical and Chemical Properties

COLOUR: Clear colorless to yellow

APPEARANCE: Clear mobile liquid

ODOUR: Spicy, earthy, myristic

FLAVOUR:

FLASH-POINT °C: 56

RELATIVE DENSITY @ d_{20}^{20} : 0.8850 to 0.9060

OPTICAL ROTATION @ 20°C: +5 to +15

REFRACTIVE INDEX @ 20°C: 1.4750 to 1.4820

SOLUBILITY IN 85% ETHANOL @ 20°C: soluble 1+2 max

SOLUBILITY IN VEGETABLE OILS:

SOLUBILITY IN WATER: Negligible

ADDITIONAL DATA:

TYPICAL ANALYSIS BY GC/MS: 1,8-cineol <2.4% typical, terpinen-4-OL 38% typical

ISO 4730: α -pinene (1-6%), sabinene (tr.-3.5%), α -terpinene (5-13%), limonene (0.5-4%), P-cymene (0.5-12%), 1,8-cineol (0.15%), γ -terpinene (10-28%), terpinolene (1.5-5%), terpinen-4-OL (30%+), α -terpineol (1.5-8%), aromadendrene (tr-7%), ledene (viridiflorene) (0.5-6.5%), δ -cadinene (tr-8%), globulol (tr-3%), viridiflorol (tr-1.5%).

Section 10. Stability & Reactivity

REACTIVITY: It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.

DECOMPOSITION: Liable to cause smoke & acid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

Section 11. Toxicological Information

Found to be non-toxic, non phototoxic, and non-irritating: see RIFM monograph (1988) FCT, 26, 407 Special Issue VII. Ingestion: orl rat LD₅₀: 1.9-2.6ml/Kg ATTIA. However BEOA CHIP guidance (1997) gives hazard codes as R22 & R38 (some evidence of skin irritation above 75%) concentration.

Section 12. Ecological Information

BIODEGRADABILITY: Data not available

PRECAUTIONS: Prevent surface contamination of soil, ground & surface water.

Section 13. Disposal Considerations

Avoid disposing to drainage systems and into the environment. Seek expert advice.

Section 14. Transport Regulations

Road (ADR/RID):

Air (IATA):

Sea (IMDG):

UN 1993:

Section 15. Regulatory Information

ACCORDING TO DIRECTIVE 88/379/EEC

HAZARDS: Harmful

SYMBOLS: Xn

RISK PHRASES: R22 Harmful if swallowed; R38 Irritating to skin; R10 Flammable liquid

SAFETY PHRASES:

Section 16. Other Information

Section 17. Packaging

Type	Suitability
Glass	Yes
Lacquer Lined steel/tin	Moderate

Type	Suitability
Aluminum	Yes
HPPE	Yes
F/HDPE	Yes
Other plastic	Yes

Section 18. Shelf Life

Min 12 months when stored within advised conditions.

Section 19. Requirements

In-line with general product specification. Always satisfy suitability for specific application.
Retest after 6 months.

Section 20. Disclaimer

The information contained herein is based on data considered accurate and reliable. However, the data is provided without any warranty, expressed or implied regarding its correctness or accuracy. It is the users responsibility both to determine safe conditions for use of this product, and to assume liability for loss, injury, damage, or expense resulting from the improper use of this product.