



## TECHNICAL DATA SHEET

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## TEA TREE OIL

Version: 2.0

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

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**Name** : TEA TREE OIL  
**Product code** : TEAHE01  
**Origin** : Australia, South Africa, China

### SECTION 2: PRODUCTION PROCESS

**Manufacture** : Watersteam distillation of Melaleuca alternifolia leaves

### SECTION 3: REGULATORY SITUATION

**Identification of the product** : Essential oil  
**Botanical name** : Melaleuca alternifolia (Maiden & Betche) Cheel.  
**INCI Name** : MELALEUCA ALTERNIFOLIA LEAF OIL  
**Synonyms** : CAS USA No 68647-73-4  
**CAS-No.** : 85085-48-9  
**EC-No.** : 285-377-1  
**REACH registration No** : 01-2120743651-57  
**FEMA** : 3902  
**CEE** : 275n

### SECTION 4: Physical and chemical properties

**Physical state** : Liquid.  
**Appearance** : Liquid mobile. Clear.  
**Colour** : Colourless. light yellow.  
**Odour** : characteristic.  
**Flash point** : 59 °C  
**Boiling point** : > 180 °C  
**Relative density** : 0,885 - 0,906  
**Refractive index** : 1,475 - 1,482  
**Optical rotation** : 7 - 12 °  
**Solubility** : Insoluble in water. Solubility in ethanol.  
**Composition** :  
- AROMANDRENE : 0.2 - 3.0 %  
- LEDENE (= Viridiflorene) : 0.1 - 3.0 %  
- GLOBULOL : Traces - 0.1 %  
- VIRIDIFLOROL: Traces - 0.1 %

### SECTION 5: Handling and storage

**Additional hazards when processed** : Handle empty containers with care because residual vapours are flammable.  
**Precautions for safe handling** : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing smokes, vapours. Use only outdoors or in a well-ventilated area.  
**Hygiene measures** : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.  
**Technical measures** : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof ventilating equipment.  
**Storage conditions** : Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container tightly closed.  
**Incompatible products** : Strong bases. Strong acids.  
**Incompatible materials** : Sources of ignition. Direct sunlight. Heat sources.  
**Maximum storage period** : 36 months Shelf life to guarantee the quality and properties of the product; After this period, it is recommended to control organoleptic and physicochemical properties before using the raw material.

# TEA TREE OIL

## Technical data sheet

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**Storage temperature**

: ~ 18 (5 - 25) °C

Exaflor Technical Data Sheet

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*