



The Soap Kitchen (2011) Ltd
Unit 8, Caddsdwn Industrial Park, Clovelly Road,
Bideford, Devon, EX39 3DX, United Kingdom





Email: enquiries@thesoapkitchen.co.uk
Call: +44 (0) 1237 420 872

MATERIAL SAFETY DATA SHEET

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier					
Product Name		Organic Tea Tree Oil			WHC198
Biological Definition		Melaleuca Alternifolia Leaf Oil is the oil distilled from the leaves of the Tea Tree, <i>Melaleuca alternifolia</i> , <i>Myrtaceae</i> .			
INCI Name		Melaleuca Alternifolia Leaf Oil			
Synonyms & Trade Names		-			
CAS-No	85085-48-9 / 8022-72-8 / 68647-73-4	EC No.	285-377-1 / - / -	EINECS No.	285-377-1 / - / -
1.2 Relative identified uses of the substance or mixture and uses advised against					
Suitable for use in cosmetic, fragrance, flavour and professional applications only.					
1.3 Details of the supplier of the safety data sheet					
William Hodgson & Company, Unit 3 The Dairy, Gawsworth Business Court, Shellow Lane, North Rode, Congleton, Cheshire. CW12 2FQ.					
1.4 Emergency Tel. No.		+ 44 (0) 1260 222 943			

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture			
The full text for all hazard statements is displayed in Section 16.			
Classification (EC 1272/2008)			
Physical hazards:	Flam. Liq. 3 - H226		
Health hazards:	Acute Tox. 4 - H302. Skin Irrit. 2 - H315. Eye Irrit. 2 - H319. Skin Sens. 1 -H317. Asp. Tox. 1 - H304.		
Environmental hazards:	Aquatic Chronic 2 - H411.		
2.2 Label Elements			
Label in accordance with (EC) No 1272/2008			
GHS02	GHS08	GHS07	GHS09
			
Signal Word		Danger.	
Contains		gamma-Terpinene, alpha-Terpinene, Terpinolene, alpha-Pinene, p-Cymene, d-Limonene	

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Hazard Statements

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
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.
H401 Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

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.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.
P391 Collect spillage.
P262 Do not get in eyes, on skin, or on clothing.

Supplementary Precautionary Statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/ bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/ container in accordance with national regulations.

2.3 Other Hazards

PBT or vPvB according to Annex XIII	Not additional data available.
Adverse physio-chemical properties	Not additional data available.
Adverse effects on human health	Not additional data available.

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03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures	
>35.0% Terpinen-4-ol	CAS No: 562-74-3 EC No: 209-235-5 Classification (EC 1272/2008) Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319
10.0 – 28.0% gamma-Terpinene (p-mentha-1,4-diene)	CAS No: 99-85-4 EC No: 202-794-6 Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304
5.0 – 13.0% alpha-Terpinene	CAS No: 99-86-5 EC No: 202-795-1 Classification (EC 1272/2008) Flam. Liq. 3 - H226, Acute Tox. 4 - H302, Asp. Tox. 1 - H304, Aquatic Chronic 2 - H411
1.0 – 5.0% Terpinolene	CAS No: 586-62-9 EC No: 209-57-0 Classification (EC 1272/2008) Asp. Tox. 1- H304, Skin Sens. 1B - H317, Aquatic Acute 1- H400, Aquatic Chronic 1- H410
1.5 – 8.0% alpha-Terpineol (p-menth-1-en-8-ol)	CAS No: 98-55-5 EC No: 202-680-6 Classification (EC 1272/2008) Skin Irrit. 2 - H315, Eye Irrit. 2 - H319
1.0 – 6.0% alpha-Pinene	CAS No: 80-56-8 EC No: 201-291-9 Classification (EC 1272/2008) Flam. Liq. 3 - H226, Acute Tox. 4 H302, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic Acute 1- H400, Aquatic Chronic 1- H410
0.5-12.0% p-Cymene	CAS No: 99-87-6 EC No: 202-796-7 Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit.2 – H3419, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410
<5.0% 1.8-cineole	CAS No: 470-82-6 EC No: 207-431-5 Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Sens. 1- H317
< 5.0% d-Limonene	CAS No: 5989-27-5 EC No: 227-813-5 Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317 Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Move the exposed person to fresh air. Seek medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Immediately rinse mouth and provide fresh air. Get medical attention.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye Contact	Remove victim immediately from source of exposure. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

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4.2 Most important symptoms and effects, both acute and delayed

No additional data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Use as appropriate: Carbon Dioxide (CO₂), dry chemical. Do not use a direct stream of water to extinguish.

5.2 Special hazards arising from the product

When heated to decomposition, it emits acrid smoke as well as carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks.

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2 Environmental Precautions

Do not discharge into drains, water courses or onto the ground. In case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local and national legislation.

6.3 Methods and material for containment and cleaning up.

Absorb with inert, non-combustible, inorganic absorbent material, sweep up and remove to an approved disposal container. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the de-contaminator on the remains in an opened container and let it act for a few days until no further reaction is produced.

6.4 Reference to other sections

See sections 7, 8, 13.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid spilling, skin and eye contact.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

No additional data available.

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08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Alpha- Terpinolene (CAS: 586-62-9)

DNEL

Workers - Inhalation;	Long term systemic effects: 3.6 mg/m ³
Workers - Dermal;	Long term systemic effects: 0.52 bw/day, mg/kg
General population - Inhalation;	Long term systemic effects: 0.9 mg/m ³
General population - Dermal;	Long term systemic effects: 0.26 bw/day, mg/kg
General population - Oral;	Long term systemic effects: 0.26 bw/day, mg/kg

PNEC

- Fresh water;	Short term 0.634 mg/l
- Intermittent release,	Fresh water; Short term 0.634 mg/l
- Marine water;	Short term 0.063 mg/l
- STP;	Short term 0.2 mg/l
- Sediment (Fresh water);	Short term 14.7 mg/kg
- Sediment (Marine water);	Short term 14.7 mg/kg
- Soil;	Short term 29.1 mg/kg

p-menth-1-en-8-ol (CAS: 98-55-5)

PNEC

- Fresh water;	Short term 68 mg/l
- Marine water;	Short term 6.8 mg/l
- STP;	Short term 2.6 mg/l
- Sediment (Fresh water);	Short term 1.85 mg/kg
- Sediment (Marine water);	Short term 0.185 mg/kg
- Soil;	Short term 0.329 mg/kg

Alpha Pinene (CAS: 80-56-8)

DNEL

Workers - Inhalation;	Long term systemic effects: 3.8 mg/m ³
Workers - Dermal;	Long term systemic effects: 0.54 mg/kg, bw/day
General population - Inhalation;	Long term systemic effects: 0.67 mg/m ³
General population - Dermal;	Long term systemic effects: 0.19 mg/kg, bw/day
General population - Oral;	Long term systemic effects: 0.19 mg/kg, bw/day

PNEC

- Fresh water;	Short term 0.606 mg/l
- Fresh water,	Intermittent release; 3.03 mg/l
- Marine water;	Short term 0.061 mg/l
- Intermittent release,	Marine water; 0.303 mg/l
- STP;	Short term 0.2 mg/l
- Sediment (Fresh water);	Short term 157 mg/kg
- Sediment (Marine water);	Short term 15.7 mg/kg

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- Soil;

Short term 31.7 mg/kg

1, 8- cineole (CAS: 470-82-6)

DNEL

Workers - Inhalation;

Long term systemic effects: 7.05 mg/m³

Workers - Dermal;

Long term systemic effects: 2 mg/kg, bw/day

General population - Inhalation;

Long term systemic effects: 1.74 mg/m³

General population - Dermal;

Long term systemic effects: 1 bw/day, mg/kg

General population - Oral;

Long term systemic effects: 600 bw/day, mg/kg

PNEC

- Fresh water;

Short term 5.7 mg/l

- Intermittent release,

Fresh water; 0.57 mg/l

- Marine water;

Short term 5.7 mg/l

- STP;

Short term 10 mg/l

- Sediment (Fresh water);

Short term 1.425 mg/kg

- Sediment (Marine water);

Short term 0.142 mg/kg

- Soil;

Short term 0.25 mg/kg

8.2 Exposure controls

Protective Equipment



Process Conditions

Use personal protective equipment that is clean and has been properly maintained.
Store personal protective equipment in a clean place, away from the work area.
Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation.

Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand Protection

Protective gloves must be used if there is a risk of direct contact or splash.

Eye Protection

Wear splash-proof eye goggles to prevent any possibility of eye contact.

Other Protection

Provide eyewash station.

Hygiene Measures

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

Personal Protection

Avoid inhalation and contact with skin and eyes. Do not eat or drink whilst in the work area.

Skin Protection

Avoid skin contact. Wear suitable protective clothing..

Environmental Exposure Controls

Do not allow to enter waterways.

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09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Mobile liquid, colourless to pale yellow.
Colour	Colourless to pale yellow.
Odour	Characteristic – powerful, warm, spicy.
Relative Density	Approx. 0.896 @ 20°C
Flash Point (°C)	57.0
Refractive Index	Approx. 1.476 @ 20°C
Melting Point (°C)	No data available.
Boiling Point (°C)	97.0 – 220.0
Vapour Pressure	No data available.
Solubility in Water @20°C	Insoluble.
Auto-ignition temperature (°C)	269.0

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No additional data available.

10.2 Chemical stability

This substance is stable under the recommended handling and storage.

10.3 Possible hazardous reactions

No additional data available.

10.4 Conditions to Avoid

Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Strong acids, alkali or oxidising agents.

10.6 Hazardous Decomposition Products

Carbon dioxide (CO₂). Carbon monoxide (CO). Hydrocarbons.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	Ingestion: Harmful if swallowed. Oral: LD ₅₀ 1900 mg/kg, Oral, Rat Dermal: LD ₅₀ >5000 mg/kg, Dermal, Rabbit
Skin corrosion / irritation	Causes skin irritation. May cause redness, irritation or oedema.
Serious eye damage / irritation	Causes serious eye irritation.

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Respiratory or skin sensitisation	May cause an allergic skin reaction. Repeated or prolonged skin contact may lead to allergic contact dermatitis.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
STOT-single exposure	Not classified.
STOT-repeated exposure	Not classified.
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

12.1 Toxicity
Toxic to aquatic life with long lasting effects.
12.2 Persistence & degradability
The product is readily biodegradable.
12.3 Bioaccumulation Potential
No additional data available.
12.4 Mobility in soil
No additional data available.
12.5 Results of PBT and vPvB Assessment
No additional data available.
12.6 Other adverse effects
Do not allow product to enter streams, sewers or other waterways.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION

14.1 UN number	
UN No. Road	UN 1169
UN No. SEA	UN 1169
UN No. AIR	UN 1169
14.2 UN proper shipping name	
UN1169 EXTRACTS, AROMATIC, LIQUID (TEA TREE)	
14.3 Transport hazard class(es)	
ADR/RID/ADN Class: 3: Flammable Liquid	

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IMDG Class: 3
ICAO Class/Division: 3

Transport Labels



14.4 Packing group

ADR/RID/ADN Packing group III
IMDG Packing group III
ICAO Packing group III

14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6 Special precautions for user

EMS: F-E, S-D
Emergency Action Code: 3Y
ADR transport category: 3
Hazard Identification Number (ADR/RID) 30
Tunnel Restriction Code: (D/E)

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

No additional data available.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

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

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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.

15.2 Chemical safety assessment

No additional information available.

16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	H226 Flammable liquid and vapour. H302 Harmful if swallowed. 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. H411 Toxic to aquatic life with long lasting effects.
Other Information	No additional data available
Revision Date	26/11/2019
Reason for revision	New SDS format
Rev No/Repl, SDS Generated	5

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