



G·O·L·D·E·N
BOUGH

Safety Data Sheet

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

1.1 Product Identifier

Product Name		Tea Tree Oil			
Biological Definition		Melaleuca Alternifolia Leaf Oil is the oil distilled from the leaves of the Tea Tree, <i>Melaleuca alternifolia</i> , Myrtaceae.			
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

No additional data available.

1.3 Details of the supplier of the safety data sheet

Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1

1.4 Emergency Tel. No.

604-540-8700 (Monday-Friday 8:30 am-4:30 pm)

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)

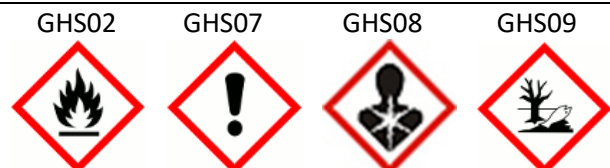
Physical and Chemical Hazards: Flam. Liq. 3 - H226

Human health: Acute Tox. 4 - H302.
Skin Irrit. 2 - H315.
Eye Irrit. 2 - H319.
Skin Sens. 1 - H317.
Asp. Tox. 1 - H304.

Environment: Aquatic Acute 2 - H401.
Aquatic Chronic 2 - H411.

2.2 Label Elements

Label in accordance with (EC) No 1272/2008



Signal Word	Danger.
Contains	Alpha pinene natural, a-terpinene, Beta Pinene, g-Terpinene, Limonene, terpinen-4-ol
Hazard Statements	
<p>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.</p>	
Precautionary Statements	
<p>P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P262 Do not get in eyes, on skin, or on clothing. P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P305+351+338 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.</p>	
Supplementary Precautionary Statements	
<p>P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash ... thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302+352 IF ON SKIN: Wash with plenty of soap and water. P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P313 Get medical advice/attention. P321 Specific treatment (see ... on this label). P330 Rinse mouth. P332+313 If skin irritation occurs: Get medical advice/attention. P333+313 If skin irritation or rash occurs: Get medical advice/attention. P337 If eye irritation persists: P362 Take off contaminated clothing and wash before reuse. P363 Wash contaminated clothing before reuse. P370+378 In case of fire: Use ... for extinction. P403+235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container to ...</p>	
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.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures		
1.0 – 5.0% Alpha Pinene Natural	CAS-No: 80-56-8	EC No: 201-291-9
Classification (EC 1272/2008)	Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304	
1.0 – 5.0% α-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 – 5.0% Beta-Pinene	CAS-No: 127-91-3	EC No: 204-872-5
Classification (EC 1272/2008)	Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304	
10.0 – 30.0% γ-Terpinene	CAS-No: 99-85-4	EC No: 202-794-6
Classification (EC 1272/2008)	Flam. Liq. 3 - H226, Asp. Tox. 1 - H304	
10.0 – 30.0% α-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% d-Limonene	CAS-No: 5989-27-5	EC No: 227-813-5
Classification (EC 1272/2008)	Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	
5.0 – 10.0% p-Cymene	CAS-No: 99-87-6	EC No: 202-796-7
Classification (EC 1272/2008)	Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	
30.0 – 60.0% Terpin-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, Aquatic Acute 3 - H402	
1.0 – 5.0% Terpinolene	CAS-No: 586-62-9	EC No: 209-57-0
Classification (EC 1272/2008)	Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Aquatic Chronic 2 - H411	

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	Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues.
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.
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	No additional data available.

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	Use as appropriate: Carbon Dioxide (CO ₂), 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.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	p-Cymene (CAS: 99-87-6) Contains no substances with occupational exposure limit values.
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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.

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	0.885 - 0.906 @ 20°C
Flash Point (°C)	57.0
Refractive Index	1.470 - 1.482 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	97.0 – 220.0
Vapour Pressure	2100 Pa
Solubility in Water @20°C	Insoluble.
Auto-ignition temperature (°C)	252.0
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
Toxic gases/vapours/fumes of: Carbon monoxide (CO). Nitrogen.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects		
Acute Toxicity	Toxic Dose 1 - LD 50	1.9 (1.4 - 2.7) mg/kg (oral rat)
	Toxic Dose 2 - LD 50	1.9 - 2.6 g/kg 13 mg/kg (oral rat)
Skin corrosion / irritation	May be harmful if absorbed through the skin. May be harmful if swallowed.	
Serious eye damage / irritation	May cause eye irritation.	
Respiratory or skin sensitisation	Potential irritant.	
Germ Cell Mutagenicity	No additional data available.	
Carcinogenicity	No additional data available.	
Reproductive toxicity	No additional data available.	
STOT-single exposure	No additional data available.	
STOT-repeated exposure	No additional data available.	
Aspiration hazard	No additional data available.	
Photo-toxicity	No additional data available.	
Other Information	No additional data available.	



12. ECOLOGICAL INFORMATION

12.1 Toxicity	
Not acutely toxic to fish (LC50>100mg/l OECD 203).	
12.2 Persistence & degradability	
The product is not readily biodegradable.	
12.3 Bioaccumulation Potential	
Partition coefficient	3.4 - 5.5
12.4 Mobility in soil	
Mobility:	Log10Koc = 2.3-5.0
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
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:	3YE
Hazard No (ADR):	30 Flammable liquid (flash-point between 23°C and 60°C, inclusive) or flammable liquid or solid in the molten state with a flash-point above 60°C, heated to a temperature equal to or above its flash-point, or self heating liquid.
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
<u>Statutory Instruments</u> The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).
<u>Guidance Notes</u>

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 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	H319 Causes serious eye irritation. H315 Causes skin irritation. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H402 Harmful to aquatic life. H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. H401 Toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H400 Very toxic to aquatic life.
Other Information	No additional data available
Revision Date	July 20, 2016
Reason for revision	New SDS
Rev No/Repl, SDS Generated	01

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