



Safety Data Sheet

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

1.1 Product Identifier

Product Name		Tea Tree Oil Chinese.			
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

Flavour and fragrance.

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

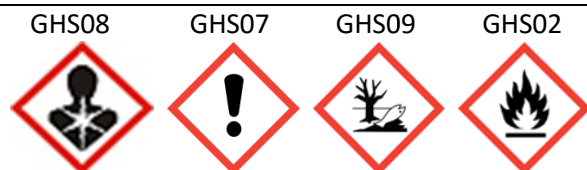
The Full Text for all Hazard Statements displayed in Section 16.

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

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	
<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	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
30.0 - 60.0% 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, Aquatic Acute 3 - H402

<p>10.0 - 30.0% a-terpinene CAS-No.: 99-86-5 EC No.: 202-795-1</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 - H226, Acute Tox. 4 - H302, Asp. Tox. 1 - H304, Aquatic Chronic 2 - H411</p>
<p>10.0 - 30.0% g-terpinene CAS-No.: 99-85-4 EC No.: 202-794-6</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304</p>
<p>5.0 - 10.0% p-cymene CAS-No.: 99-87-6 EC No.: 202-796-7</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Aquatic Chronic 2 - H411</p>
<p>1.0 - 5.0% Limonene CAS-No.: 5989-27-5 EC No.: 227-813-5</p> <p>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</p>
<p>1.0 – 5.0% Beta-Pinene CAS-No.: 127-91-3 EC No.: 204-872-5</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410</p>
<p>1.0 - 5.0% Alpha-Pinene Natural CAS-No.: 80-56-8 EC No.: 201-291-9</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410</p>
<p>1.0 - 5.0% Terpinolene CAS-No.: 586-62-9 EC No.: 209-578-0</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Aquatic Chronic 2 - H411</p>
<p>1.0 – 5.0% a-terpineol (p-menth-1-en-8-ol) CAS-No.: 98-55-5 EC No.: 202-680-6</p> <p>Classification (EC 1272/2008) Skin Irrit. 2 - H315, Eye Irrit. 2 - H319</p>

04. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Move the exposed person to fresh air at once. Get 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 (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 absorbant 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 point 4, 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.

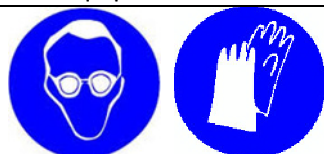
08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Not determined.

8.2 Exposure controls

Protective Equipment



Process Conditions	Provide eyewash station.
Engineering Measures	Provide adequate 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	Wash at the end of each work shift and before eating, smoking and using the toilet. Good personal hygiene practices are always advisable, especially when working with chemicals.
Personal Protection	Protective work clothing solvent resistant (should be checked regularly).
Skin Protection	Wear apron or protective clothing in case of splashes.
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Pale yellowish / yellow.
Odour	Characteristic.
Relative Density	0.885 - 0.906 @ 20°C
Flash Point (°C)	57°C
Refractive Index	1.470 - 1.482 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	97 - 220°C
Vapour Pressure	2100 Pa.
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	252°C

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

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.
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	
No additional data available.	
12.4 Mobility in soil	
Log10Koc = 2.3-5.0.	
12.5 Results of PBT and vPvB Assessment	
No additional data available.	
12.6 Other adverse effects	
No additional data available.	

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	1169
UN No. SEA	1169
UN No. AIR	1169
14.2 UN proper shipping name	
EXTRACTS, AROMATIC, LIQUID (TEA TREE)	
14.3 Transport hazard class(es)	
ADR/RID/ADN – Class 3 ADR/RID/ADN – Class 3	

IMDG – Class 3
ICAO – Class 3

Transport Labels



TUNNEL RESTRICTION CODE (D/E)

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.

HAZARD NO. (ADR)

HAZCHEM CODE 3YE

EMS F-E-S-D

14.4 Packing group

ADR/RID/ADN Packing group – III

IMDG Packing group – III

ICAO Packing group – III

14.5 Environmental hazards

None.

14.6 Special precautions for user

None.

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

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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 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. H410 Very toxic to aquatic life with long lasting effects. H400 Very toxic to aquatic life.
Other Information	None.
Revision Date	September 9, 2015
Reason for revision	New SDS.
Rev No/Repl, SDS Generated	01

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