Safety data sheet

according to 1907/2006/EC, Article 31

Version: SDS/2019_2.03
Product Name: AUSTRALIAN TEA TREE OIL ***Date: 2019/05/22***

SECTION 1: Identification of the substance/ mixture and of the Company / undertaking

1.1 Product Identifiers

Product Code : ***001***
Product Name : ***AUSTRALIAN TEA TREE OIL***
CAS No. (TSCA) : *68647-73-4*
EINECS : *285-377-1*
Reach Registration number: *01-2120743651-57-0027*

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available
Application of the substance / preparation:
Food/Flavour, Fragrance application

1.3 Manufacturer / Supplier Details:

Golden Grove Naturals Pty Ltd
Munro Wharf Road, Tucki Tucki, NSW 2480
Email: info@goldengrovenaturals.com

1.4 Information in case of emergency:

Oceania
Mr Aaron Pollack
Ph.: +61 0416 803 264
Email: info@goldengrovenaturals.com

Europe
Department Regulatory Affairs
Tel.: 0049-36081-621-0
Email: info@miritz.de

USA and Asia
Mr. Prasenjit Mazumdar
Ph.: +91 9810008844
Email: mazumdar@goldengrovenaturals.com

SECTION 2: Hazard Identification

2.1 Classification of the substance / preparation

Classification according to Regulation (EC) No. 1272/2008

Flam. Liq. 3	H226: Flammable liquid and vapour
Acute Tox. Oral 4	H302: Harmful if swallowed
Asp. Tox. 1	H304: May be fatal if swallowed and enters airways
Skin Irrit. 2	H315: Causes skin irritation
Skin Sens. 1	H317: May cause an allergic skin reaction
Acute Tox. 4	H332: Harmful if inhaled
Aquatic Chronic 2	H411: Toxic to aquatic life with long-lasting effects

2.2 Label Elements

Labelling according to Regulation (EC) No. 1272/2008
This product is classified and labelled according to the CLP regulation.

GHS Signal Word
DANGER

Hazard Pictograms

GHS07 GHS02 GHS09 GHS08

May be fatal if swallowed

Hazard Determining components of Labelling

Terpinen-4-ol
Alpha Terpinene
1,8-Cineol
Alpha Terpineol

Hazard Statements

H226	Flammable liquid and vapour
H302+332	Harmful if swallowed or inhaled
H304	Maybe fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P241	Use explosion-proof electrical/ventilating/light/…/equipment
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE/ doctor
P321	Specific treatment (see on this document)
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water
P362 + P364	Take off contaminated clothing and wash before reuse
P330	Rinse mouth
P405	Store locked up
P501	Dispose of contents/container to … (in accordance with local/regional/national/international regulation)

2.3 Other Hazard

Can cause dry skin.
Results of PBT and vPvB assessment – Not applicable

SECTION 3: Composition / Information of Ingredients

3.1 Chemical characterisation: Substance

TSCA CAS Number : ***68647-73-4***
EINECS CAS Number : ***85085-48-9***
Description : ***Tea tree oil (****Melaleuca alternifolia, ext.)*
EINECS/EC Number : ***285-377-1***

3.2 Dangerous components:

TERPINENE-4-OL (CAS No 562-74-3) ATD 5, ATO 4, EDI 2A, EH A3, FL 4, SCI 2- Amount: 35.0 – 48.0%
ALPHA- TERPINENE (CAS No 99-86-5) AH 1, ATO 4, EH A2, EH C2, FL 3, SCI 3- Amount: 6.0 - 12.0%
1,8-CINEOLE (CAS No 470-82-6) ATO 5, FL 3, SCI 3, SS 1B- Amount: max. 10.0%
ALPHA-TERPINEOL (CAS No 98-55-5) ATO 5, EDI 2A, EH A2, FL 4, SCI 2- Amount: 2.0 - 5.0%

3.3 Additional Information:

For the wordings of listed H statements refer to section 16

SECTION 4: First AID Measures

4.1 Description of first aid measures

General information:
If health disorder happens, call for medical help immediately.
Immediately remove any clothing soiled by the product.

After inhalation: *Supply fresh air and to be sure call for a doctor.*
In case of unconsciousness place patient stably inside position for transportation.
After skin contact: *Immediately wash with water and soap and rinse thoroughly.*
After eye contact: *Rinse opened eye for several minutes under running water.*
After swallowing: *Do not induce vomiting; call for medical help immediately.*

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing agents: *CO2, alcohol resistant foam, powder, water spray.*
For safety reasons unsuitable extinguishing agents: *Water with full jet*

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO2)
Smoke and soot
Do not use water with full jet to prevent fire spreading.

5.3 Advice for firefighters

Protective equipment: *Wear self-contained respiratory protective device.*
Additional information
Cool endangered receptacles with water spray.
Collect contaminated firefighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Follow safety measures in chapter 7 and 8.
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:
Do not allow to penetrate the ground/soil.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Wipe up little amounts with absorbent material like cloth or pulp.
Water and cleansing agent
Absorb with incombustible liquid-binding material (sand, diatomite, universal binders).
Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections
Keep ignition source away, do not smoke and avoid flames.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling personal protection equipment see point 8.
Information about fire - and explosion protection:
Fumes can combine with air to form an explosive mixture.
Moistened solids (e.g. cloth, pulp, filter panel, binder) must be stored hermetically sealed and/or watered and proper disposed (see chapter 9 and 13).
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Store only in unopened original receptacles.
Provide solvent resistant, sealed floor.
Information about storage in one common storage facility: Store away from oxidising agents.
Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well-sealed receptacles.
Storage class: 3
Classification according to Betriebssicherheitsverordnung (BetrSichV) Flammable

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

No Data Available

- DNELs		
Oral	DNEL, acute / short term exp., systemic effects	0.067 mg/kg (human, general population)
	DNEL, long term exp., systemic effects	0.067 mg/kg (human, general population)
Dermal	DNEL, acute / short term exp., local effects	Ug/cm2 (human, general population) No Hazard identified Ug/cm2 (human, worker) No hazard identified
	DNEL, acute / short term exp., systemic effects	1.556 mg/kg bw d (human, general population) 4.356mg/kg bw d (human worker)
	DNEL, long term exp., local effects	Ug/cm2 (human, general population) No hazard identified Ug/cm2 (human, worker) No hazard identified
	DNEL, long term exp., systemic effects	1.556 mg/kg bw d (human, general population) 4.356 mg/kg bw d (human, worker)
Inhalative	DNEL, acute / short term exp., local effects	mg/m³ (human, general population) No hazard identified mg/m³ (human, worker) No hazard identified
	DNEL, acute / short term exp., systemic effects	0.296 mg /m³ (human, general population) 0.658 mg/m³ (human, worker)
	DNEL, long term exp., local effects	mg/m³ (human, general population) No hazard identified mg/m³ (human, worker) No hazard identified
	DNEL, long term exp., systemic effects	0.296 mg /m³ (human general population) 0.658 mg/m³ (human, worker)
Irritation of eyes	DNEL, eye exposure	(human, general population) No hazard identified (human, worker) No hazard identified

- PNECs

Oral	PNEC, secondary poisoning	mg/kg food (predator) No or insufficient data available at present
	PNEC, aqua (freshwater)	7.75 µg/l (aqua (freshwater)
	PNEC, aqua (marine water)	0.775 µg/l (aqua (marine water)
	PNEC, aqua (intermittent release freshwater)	77.5 µg/l (aqua (freshwater)
	PNEC, aqua (intermittent release marinewater)	7.75 µg/l (aqua (marine water)
	PNEC, sediment (freshwater)	37.11 mg/kg sedim. dw (sediment freshwater))
	PNEC, sediment (marine water water)	3.711 mg/kg sedim. dw (sediment (marine water)
	PNEC, soil	7.42 mg/kg soil dw (soil)
	PNEC, STP	2.57 mg/l (sewage treatment plant)
	PNEC, air	(air) non hazard identified

- Additional information: the lists valid during the making where used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Use personal protective equipment depending on concentration and amount of hazardous substance.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

Respiratory protection:

Suitable respiratory protection: filter class A2 (brown colour).
Use the rules for application of respiratory protection systems.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Preventive skin protection by use of skin-protecting agents is recommended.

Protective gloves
The glove material must be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The election of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

> 480 minutes at layer thickness of 0,425 millimetre (Sol-Vex 37-695/Ansell).
The exact break through time must be found out by the manufacturer of the protective gloves and must be observed.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR
E.g. following product: Sol-Vex (37-695) from Ansell.

As protection from splashes gloves made of the following materials are suitable: *PVC gloves*

Eye protection:

Tightly sealed goggles according to EN 166:2001

Body protection: *Protective work clothing*

SECTION 9: Physical and chemical properties

General Information		
Form	:	*Liquid*
Colour	:	*Colourless to pale yellow*
Odour	:	*Characteristic*
Odour Threshold	:	*N/A*
Change in Condition		
Melting Point °C	:	*N/A*
Boiling Point ° C	:	*>35°C*
Flash Point (Closed Cup) °C	:	*55°C*
Specific Gravity/Relative Density	:	*0.885 - 0.906 @20°C*
Refractive Index	:	*1.475 - 1.482 @20°C*
Vapour Density	:	*N/A*
Vapour Pressure	:	*2.3 hPa*
Solubility:		
Water	:	*Insoluble*
Alcohol	:	*Soluble*
Flammability	:	*N/A*
Auto Ignition Temperature	:	*N/A*
Explosive Limits		
Lower Explosion Limits	:	*N/A*
Upper Explosion Limits	:	*N/A*
pH value	:	*N/A*
Optical Rotation	:	*+7° to +12°*
Surface Tension	:	*N/A*
Partition Coefficient	:	*N/A*
Granulometry	:	*N/A*
Oxidising Properties	:	*N/A*
Viscosity	:	*18 mm²/s (Kinematic @ 20°C)*

SECTION 10: Stability and reactivity

10.1 Reactivity *No further relevant information available.*

10.2. Chemical stability
Thermal decomposition / conditions to be avoided:
Heating causes vaporisation and formation of ignitable atmosphere is possible.

10.3 Possibility of hazardous reactions
Formation of explosive gas mixture with air possible.
Product is not self-igniting; but in case of unpropitious storing conditions (air admission, heat accumulation) self-ignition is possible for moistened solids (e.g. cloth, pulp, filter panels, binder).
Reacts violently with oxidising agents.

10.4 Conditions to avoid *No further relevant information available.*

10.5 Incompatible materials: *No further relevant information available.*

10.6 Hazardous decomposition products:
No dangerous decomposition products expected by intended use.

SECTION 11: Toxicological information

11.1 Toxicological Information Acute

Oral	Harmful
Inhalation	Harmful
Skin	can cause skin irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

11.2 Exposure Limits No data available

Note: There is a blanket recommendation of 10 mg/m3 for inspirable dusts or mists when limits have not otherwise been met

SECTION 12: Ecological information

12.1 Toxicity

- Aquatic toxicity No further information available

12.2 Persistence and degradability No further information available

12.3 Bioaccumulate potential No further information available

12.4 Mobility in soil No further relevant information available.

· **Ecotoxical effects:**
· **Remark:** Toxic for fish
· **Remark:** Quantitative data according to the ecological effects are not available.
· **Additional ecological information:**
· **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Water hazard class 2 (German regulation) (VwVwS3827, Cas 85085-48-9): hazardous for water
Toxic for aquatic organisms
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Product/packaging disposal
Handle in accordance with official provisions
Waste treatment options
Recycling is preferred to disposal or burning
Disposal conditions
Dispose of in accordance with all federal, state and local environmental regulations.

13.2 Recommendations:

Empty contaminated packing thoroughly as they may be recycled
Moistened solids to be dispose-off adhering to necessary technical regulations after consulting concerned authorities

SECTION 14: Transport information

14.1 Land Transport (ADR/RID/GGVSE)

UN Number	*2319*
DG Class	*3*
Packing Group	*III*
Proper Shipping Name	*Terpene Hydrocarbons, N.O.S.*
Classification code	*3Y*

14.2 Sea Transport (IMDG-Code/GGVSE)

UN Number	*2319*
DG Class	*3*
Packing Group	*III*
Proper Shipping Name	*Terpene Hydrocarbons, N.O.S.*
Marine Pollutant	*Yes*

14.3 Air Transport (ICAO-TI/IATA-DGR)

UN Number	*2319*
DG Class	*3*
Packing Group	*III*
Proper Shipping Name	*Terpene Hydrocarbons, N.O.S*

14.5 Environmental hazards: *Environmentally hazardous substance, liquid:*

- Marine pollutant: *Marine Pollutant*
No
Symbol (fish and tree)

- Special Marking (ADR): *Symbol (fish and tree)*

14.6 Special precautions for users:
Warning – flammable liquids

Danger code (Kemmler):	*30*
Custom Tariff Code	*3301.29.*
EmS Code	*F-E, S-D*

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
N/A

Transport / Additional Information:

- ADR

Limited Quantities	*5L*
Expected Quantities	*Code: E1* *Maximum net quantity per inner packaging: 30 mL* *Maximum net quantity per outer packaging: 1000 mL*
Transport category	*3*
Tunnel restriction code	*D/E*

- IMDG

Limited quantities (LQ)	*5 L*
Expected quantities (EQ)	*Code: E1* *Maximum net quantity per inner packaging: 30 mL* *Maximum net quantity per outer packaging: 1000 mL*

- UN "model regulation"

UN2319 Terpene Hydrocarbons, N.O.S (Tea tree oil Australian), 3, III, Environmentally Hazardous

SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** Substance is not listed.
· **Seveso category**
E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40

· **National regulations:**
· **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.

· **Breakdown regulations:**
Critical quantity values according to the regulations on accidents should be adhered to.

· **Waterhazard class:**
Water hazard class 2 (German regulation) (VwVwS3827, Cas 85085-48-9): hazardous for water

· **Other regulations, limitations and prohibitive regulations**
Comply with the rules and regulations of skin protection.
Comply with the rules and regulations of respiratory protection.**15.1 EU regulations:**
The product has been classified and marked in accordance with EU Directives/ Ordinance on Hazardous Materials.

15.3 Chemical safety Assessment A Chemical Safety Assessment has been carried out

15.4 Other regulations, limitations and prohibitive regulations

EPA	No
TSCA	Yes
DSL	Yes
Proposition 65	No

SECTION 16: Other information

Abbreviations used:

EC	*European Commission*
EU	*European Union*
DG	*Dangerous Goods*
CAS	*Chemical Abstract Service*
EINECS	*European Inventory of Existing Commercial chemical Substances*
GHS	*Globally Harmonized System*
CMR	*Carcinogen, Mutagen, Reprotoxic*
PNEC	*Predicted No Effect Concentration*
EC50	*Effective Concentration 50 percent*
LC50	*Lethal Concentration 50 percent*
PBT	*Persistent Bio accumulative and Toxic*
vPvB	*Very Persistent Very Bio accumulative*
EWC	*European Waste Catalogue*
EmS	*Emergency Medical Services*
ADR	*Transport of Dangerous Goods by Road*
RID	*International Carriage of Dangerous Goods by Rail*
GGVSE	*German Regulation on the Transport of Dangerous Goods by Road and Rail*
MDG	*International Maritime Dangerous Goods*
ICAO-TI	*International Civil Aviation Organization-Technical Instructions*
IATA-DGR	*International Air Transport Association-Dangerous Goods Regulation*
WGK	*Wassergefährdungsklassen*
EPA	*Environmental Protection Agency*
TSCA	*Toxic Substance Control Act*
DSL	*Dangerous Substance List*

16.2 Full text of the H-Statement used in Section -3. (follow the link)

<http://ec.europa.eu/enterprise/sectors/chemicals/files/ghs/signalwords_hs_ps_en.xls>

Quality Declaration

The information contained herein is based on the present state of our knowledge. It characterizes the product with regards to the appropriate safety precaution.