SAFETY DATA SHEET

In accordance with GB REACH UK SI 2020 No. 1577

Product: Tea Tree Oil

Version: 1

Section 1. Identification of the substance or the mixture and of the supplier

1.1 Product Identifier

Product identifier: Tea Tree Oil; CAS: 85085-48-9

Other identifiers: Melaleuca alternifolia (Maiden & Betche) Cheel

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

Product uses: Flavours,Fragrances,Cosmetics,Professional Use Only,Food use.

1.3 Details of the supplier of the safety data sheet

Company name: Ascend Brands Limited

Company address: Martland Mill, Mart Lane, Burscough, L40 0SD, UK

Contact: Product Support

E-Mail address: hello@ascendbrands.co.uk

Company phone:

1.4 Emergency telephone number

Emergency phone: +44 (0) 330 223 7035

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification under GB GHS UK SI 2020 No. 1567

Class and category of danger:
Flammable Liquid, Hazard Category 3
Acute Toxicity - Oral Category 4
Acute Toxicity - Inhalation Category 4
Skin Corrosion / Irritation Category 2
Sensitization - Skin Category 1B
Toxic to Reproduction Category 2
Specific Target Organ Toxicity (Single Exposure) Category 3
Aspiration Hazard Category 1
Hazardous to the Aquatic Environment - Long-term Hazard Category 2
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.
H332, Harmful if inhaled.
H336, May cause drowsiness or dizziness.
H361, Suspected of damaging fertility or the unborn child (exposure route).
H411, Toxic to aquatic life with long lasting effects.

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2.2 Label elements

Classification under GB GHS UK SI 2020 No. 1567

Signal word: Danger

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.
H332, Harmful if inhaled.
H336, May cause drowsiness or dizziness.
H361, Suspected of damaging fertility or the unborn child (exposure route).
H411, Toxic to aquatic life with long lasting effects.

M factor: None

Supplemental Information: None

Precautionary statements:
P202, Do not handle until all safety precautions have been read and understood.
P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P240, Ground/bond container and receiving equipment.
P241, Use explosion-proof electrical, ventilating and lighting equipment.
P242, Use only non-sparking tools.
P243, Take precautionary measures against static discharge.
P261, Avoid breathing vapour or dust.
P264, Wash hands and other contacted skin thoroughly after handling.
P270, Do not eat, drink or smoke when using this product.
P271, Use only outdoors or in a well-ventilated area.
P272, Contaminated work clothing should not be allowed out of the workplace.
P273, Avoid release to the environment.
P280, Wear protective gloves/eye protection/face protection.
P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303/361/353, IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304/340, IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308/313, IF exposed or concerned: Get medical advice/attention.
P312, Call a POISON CENTRE or doctor/physician if you feel unwell.
P330, Rinse mouth.
P331, Do not induce vomiting.
P333/313, If skin irritation or rash occurs: Get medical advice/attention.
P362, Take off contaminated clothing and wash before reuse.

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P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.

P391, Collect spillage.

P403/233/235, Store in a well-ventilated place. Keep container tightly closed. Keep cool.

P405, Store locked up.

P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

Pictograms:



2.3 Other hazards

Other hazards: Hydrocarbon Concentration %: 48.9000%

Section 3. Composition / information on ingredients

3.1 Substances

Product identifier: Tea Tree Oil; CAS: 85085-48-9

Contains:

Name	CAS	EC	GB REACH Registration No.	%	GB GHS UK SI 2020 No. 1567
Terpinen-4-ol	562-74-3	209-235-5		20-<50%	Acute Tox. 4-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1-STOT SE 3; H302-H315-H317-H332-H336,-
p-Mentha-1,4-diene	99-85-4	202-794-6		20-<50%	Flam. Liq. 3-Repr. 2-Asp. Tox 1-Aquatic Chronic 2;H226-H304-H361-H411,-
p-Mentha-1,3-diene	99-86-5	202-795-1		10-<20%	Flam. Liq. 3-Acute Tox. 4-Skin Sens. 1-Asp. Tox 1-Aquatic Chronic 2;H226-H302-H304-H317-H411,-
Terpinolene	586-62-9	209-578-0		5-<10%	Skin Sens. 1B-Aquatic Chronic 1-Asp. Tox 1-Aquatic Acute 1;H304-H317-H410,-
alpha-Pinene	80-56-8	201-291-9		1-<5%	Flam. Liq. 3-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1B-Aquatic Chronic 1-Asp. Tox 1-Aquatic Acute 1;H226-H302-H304-H315-H317-H410,-
Eucalyptol	470-82-6	207-431-5		1-<5%	Flam. Liq. 3-Skin Sens. 1B;H226-H317,-
alpha-Terpineol	98-55-5	202-680-6		1-<5%	Eye Irrit. 2-Skin Irrit. 2; H315-H319,-

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beta-Pinene	127-91-3	204-872-5		1-<5%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Aquatic Chronic 1-Asp. Tox 1-Aquatic Acute 1; H226-H304-H315-H317-H410,-
d-Limonene	5989-27-5	227-813-5		1-<5%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 3; H226-H304-H315-H317-H400-H412,-
p-Cymene	99-87-6	202-796-7		1-<5%	Flam. Liq. 3-Acute Tox. 3-Repr. 2-Asp. Tox 1-Aquatic Chronic 2; H226-H304-H331-H361-H411,-
Linalool	78-70-6	201-134-4		1-<5%	Eye Irrit. 2-Skin Irrit. 2-Skin Sens. 1B;H315-H317-H319,-
Myrcene	123-35-3	204-622-5		0.1-<1%	Eye Irrit. 2-Flam. Liq. 3-Skin Irrit. 2-Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 2; H226-H304-H315-H319-H400-H411,-
beta-Phellandrene	555-10-2	209-081-9		0.1-<1%	Flam. Liq. 3-Skin Sens. 1-Asp. Tox 1;H226-H304-H317,-
alpha-Phellandrene	99-83-2	202-792-5		0.1-<1%	Flam. Liq. 3-Skin Sens. 1-Aquatic Chronic 1-Asp. Tox 1-Aquatic Acute 1;H226-H304-H317-H410,-
beta-Caryophyllene	87-44-5	201-746-1		0.1-<1%	Skin Sens. 1B-Asp. Tox 1;H304-H317,-

Section 4. First-aid measures

4.1 Description of first aid measures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eye exposure: Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

Skin exposure: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction.

Harmful if inhaled.

May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child (exposure route).

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4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

5.2 Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

6.3 Methods and material for containment and cleaning up:

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

6.4 Reference to other sections:

Also refer to sections 8 and 13.

Section 7. Handling and storage

7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

7.3 Specific end use(s):

Flavours,Fragrances,Cosmetics,Professional Use Only,Food use.: Use in accordance with good manufacturing and industrial hygiene practices.

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Section 8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits: Not Applicable

8.2 Exposure Controls

Eye / Skin Protection

Wear protective gloves/eye protection/face protection

Respiratory Protection

Ensure adequate and ongoing ventilation is maintained in order to prevent build up of excessive vapour and to ensure occupational exposure limits are adhered to. If appropriate, and depending on your patterns and volumes of use, the following engineering controls may be required as additional protective measures: a) Isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant. b) Employ the use of Personal protective equipment - an approved, properly fitted respirator with organic vapour cartridges or canisters and particulate filters. c) Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures. d) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Mobile liquid, colourless to pale yellow.
Odour:	Characteristic
Odour threshold:	Not determined
pH:	Not determined
Melting point / freezing point:	Not determined
Initial boiling point / range:	97 - 220 °C
Flash point:	56 - 59 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Upper/lower flammability or explosive limits:	Product does not present an explosion hazard
Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density:	0.8850 - 0.9060
Solubility(ies):	Insoluble in water.
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	269 °C
Decomposition temperature:	Not determined
Viscosity:	Not determined

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Explosive properties:	Not expected
Oxidising properties:	Not expected

9.2 Other information: None available

Section 10. Stability and reactivity

10.1 Reactivity:
Presents no significant reactivity hazard, by itself or in contact with water.

10.2 Chemical stability:
Good stability under normal storage conditions.

10.3 Possibility of hazardous reactions:
Not expected under normal conditions of use.

10.4 Conditions to avoid:
Avoid extreme heat.

10.5 Incompatible materials:
Avoid contact with strong acids, alkalis or oxidising agents.

10.6 Hazardous decomposition products:
Not expected.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute Toxicity:	Acute Toxicity - Oral Category 4
	Acute Toxicity - Inhalation Category 4
Acute Toxicity Oral	1900 mg/kg
Acute Toxicity Dermal	>5000
Acute Toxicity Inhalation	3.49
Skin corrosion/irritation:	Skin Corrosion / Irritation Category 2
Serious eye damage/irritation:	Based on available data the classification criteria are not met.
Respiratory or skin sensitisation:	Sensitization - Skin Category 1B
Germ cell mutagenicity:	Based on available data the classification criteria are not met.
Carcinogenicity:	Based on available data the classification criteria are not met.
Reproductive toxicity:	Toxic to Reproduction Category 2
STOT-single exposure:	Specific Target Organ Toxicity (Single Exposure) Category 3
STOT-repeated exposure:	Based on available data the classification criteria are not met.
Aspiration hazard:	Aspiration Hazard Category 1

Information about hazardous ingredients in the mixture

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Ingredient	CAS	EC	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
Terpinen-4-ol	562-74-3	209-235-5	1300	2500	1.5	Dust/mist mg/l
p-Cymene	99-87-6	202-796-7	4750	Not available	9.7	Vapour mg/l
p-Mentha-1,3-diene	99-86-5	202-795-1	1680	Not available	Not available	Not available

Refer to Sections 2 and 3 for additional information.

Section 12. Ecological information

12.1 Toxicity:

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability: Not available

12.3 Bioaccumulative potential: Not available

12.4 Mobility in soil: Not available

12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of GB REACH UK SI 2020 No. 1577.

12.6 Other adverse effects: Not available

Section 13. Disposal considerations

13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information

	14.1 UN number:	14.2 UN Proper Shipping Name:	14.3 Transport hazard class (es):	Sub Risk:	14.4 Packing Group:
UN Model Regulations	UN1197	EXTRACTS, LIQUID	3	-	III
IMDG	UN1197	EXTRACTS, LIQUID (Terpinolene) MARINE POLLUTANT	3	-	III
ADR,RID,ADN	UN1197	EXTRACTS, LIQUID	3	-	III
ICAO TI	UN1197	EXTRACTS, LIQUID	3	-	III

14.5 Environmental hazards: This is classified as an environmentally hazardous substance under the UN Model Regulations. This is classified as a Marine Pollutant under the IMDG Code.

14.6 Special precautions for user: None additional

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

Not applicable

Section 15. Regulatory information

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

RIFM ID Number: 1176-E2.12

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

Section 16. Other information

Concentration % Limits: SCI 2=18.35% SS 1=2.33% REP 2=13.04% AH 1=20.45% STO-SE 3(NE) =46.51% EH C2(GB)=16.59% EH C3(GB)=1.66% EH C4(GB)=50.68%

Total Fractional Values: SCI 2=5.45 SS 1=43.00 REP 2=7.67 AH 1=4.89 STO-SE 3(NE)=2.15 EH C2(GB)=6.03 EH C3(GB)=60.34 EH C4(GB)=1.97

Key to revisions:

Concentration % Limits
GB GHS Hazard Category and Statement Summary
Hazardous Ingredients disclosed in a GB GHS Safety Data Sheet
Total Fractional Values

Key to abbreviations:

Abbreviation	Meaning
Acute Tox. 3	Acute Toxicity - Inhalation Category 3
Acute Tox. 4	Acute Toxicity - Oral Category 4
Acute Tox. 4	Acute Toxicity - Inhalation Category 4
Aquatic Acute 1	Hazardous to the Aquatic Environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1
Aquatic Chronic 2	Hazardous to the Aquatic Environment - Long-term Hazard Category 2
Aquatic Chronic 3	Hazardous to the Aquatic Environment - Long-term Hazard Category 3
Asp. Tox 1	Aspiration Hazard Category 1
Eye Irrit. 2	Eye Damage / Irritation Category 2
Flam. Liq. 3	Flammable Liquid, Hazard Category 3
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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.

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H361	Suspected of damaging fertility or the unborn child (exposure route).
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.
H412	Harmful to aquatic life with long lasting effects.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapour or dust.
P264	Wash hands and other contacted skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
P304/340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308/313	IF exposed or concerned: Get medical advice/attention.
P311	Call a POISON CENTRE or doctor/physician.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P330	Rinse mouth.
P331	Do not induce vomiting.
P332/313	If skin irritation occurs: Get medical advice/attention.
P333/313	If skin irritation or rash occurs: Get medical advice/attention.
P337/313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P370/378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
P391	Collect spillage.
P403/233/235	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P403/235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.
Repr. 2	Toxic to Reproduction Category 2

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STOT SE 3	Specific Target Organ Toxicity (Single Exposure) Category 3
Skin Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Sens. 1	Sensitization - Skin Category 1
Skin Sens. 1B	Sensitization - Skin Category 1B

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.