

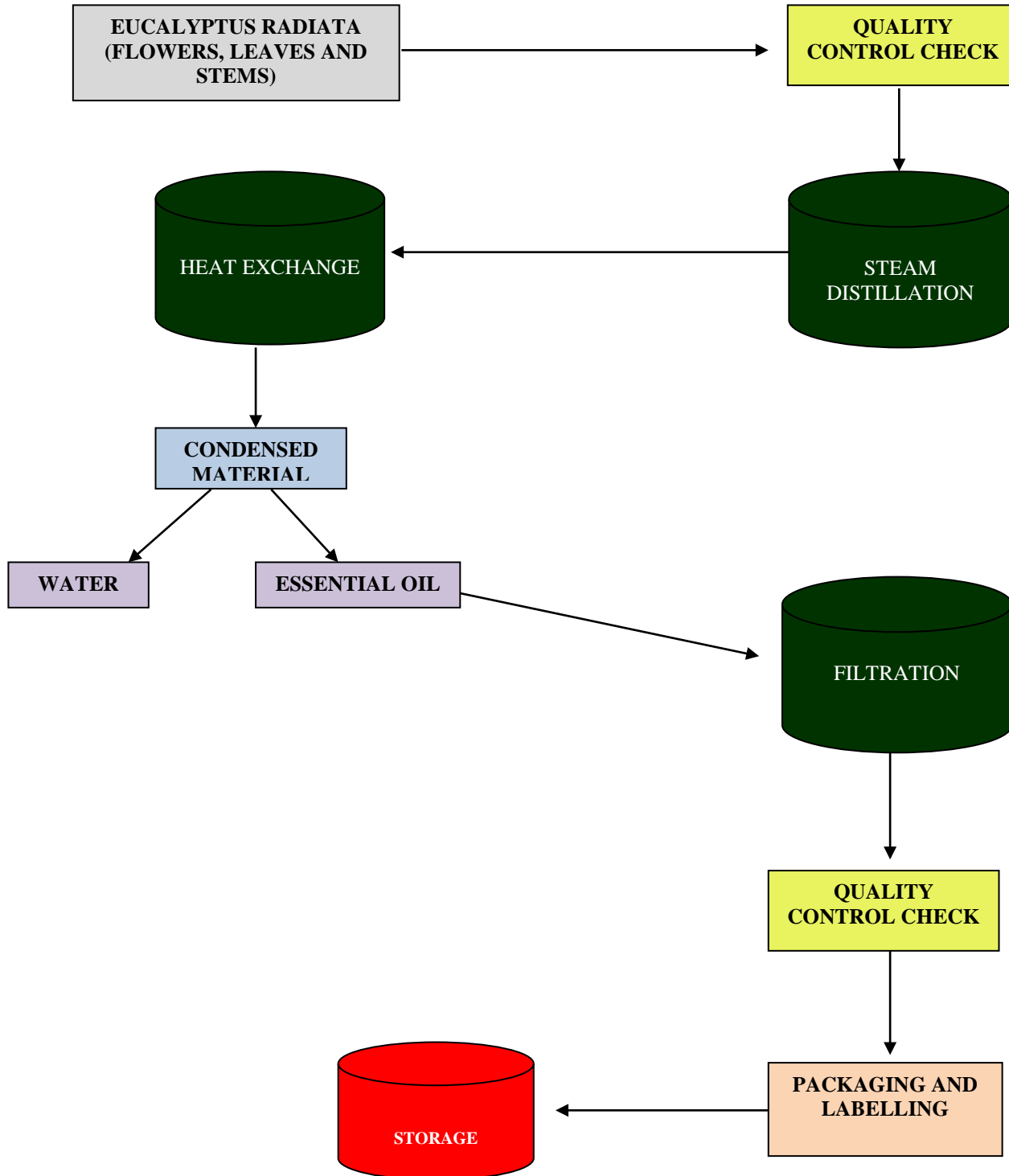


Certificate of Analysis

PRODUCT DETAILS		
Product Name	EUCALYPTUS AUSTRALIANA OIL	
Product Code	OCEUCAAUST	
Batch Number	4365605	
Best Before End	JULY 2022	
Identification	CAS No: 92201-64-4 EINECS No: 295-995-3	
PHYSICAL AND CHEMICAL CHARACTERISTIC		
	SPECIFICATION RANGE	RESULTS
Appearance	Liquid	Conforms
Colour	Colourless to Pale Yellow	Conforms
Odour	Charcteristic	Conforms
Relative Density @ 20°C	0.906 - 0.925	0.91
Refractive Index @ 20°C	1.457 - 1.470	1.461
Optical Rotation °	0 to 10	6.15
STORAGE AND SHELF LIFE		
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.	

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the Company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where MADAR make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. **It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.**

EUCALYPTUS AUSTRALIANA OIL FLOW CHART





SAFETY DATA SHEET EUCALYPTUS AUSTRALIANA OIL

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

1.1. Product identifier

Product name	EUCALYPTUS AUSTRALIANA OIL
Product number	OEEUCAUST
Synonyms; trade names	Eucalyptus radiata flower/leaf/stem oil
CAS number	92201-64-4
EC number	295-995-3

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

Identified uses	Industrial, only for professional use
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1.3. Details of the supplier of the safety data sheet

Supplier	MADAR Corporation Limited 19-20 Sandleheath Industrial Estate Fordingbridge Hampshire SP6 1PA
Approved Sellers	Mystic Moments, New Directions, World of Moulds

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Flam. Liq. 3 - H226
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Asp. Tox. 1 - H304
Environmental hazards	Aquatic Chronic 2 - H411
Human health	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May be fatal if swallowed and enters airways.
Environmental	Toxic to aquatic life with long lasting effects.
Physicochemical	Flammable liquid and vapour

2.2. Label elements

EC number	295-995-3
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EUCALYPTUS AUSTRALIANA OIL

Pictogram



Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.
 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.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P264 Wash contaminated skin thoroughly after handling.
 P273 Avoid release to the environment.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

1, 8 cineole, (R)-p-mentha-1,8-diene, Alpha Pinene, 7-methyl-3-methylenoocta-1,6-diene, Sabinene, Linalool

Supplementary precautionary statements

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.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 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).
 P331 Do NOT induce vomiting.
 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.
 P391 Collect spillage.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EUCALYPTUS AUSTRALIANA OIL

1, 8 cineole	>60%
CAS number: 470-82-6	EC number: 207-431-5
Classification	
Flam. Liq. 3 - H226	
Skin Sens. 1B - H317	
(R)-p-mentha-1,8-diene	5-10%
CAS number: 5989-27-5	EC number: 227-813-5
M factor (Acute) = 1	M factor (Chronic) = 1
Classification	
Flam. Liq. 3 - H226	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
p-menth-1-en-8-ol	5-15%
CAS number: 98-55-5	EC number: 202-680-6
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
7-methyl-3-methyleneocta-1,6-diene	1-5%
CAS number: 123-35-3	EC number: 204-622-5
M factor (Acute) = 1	M factor (Chronic) = 1
Classification	
Flam. Liq. 3 - H226	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Asp. Tox. 1 - H304	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

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Alpha Pinene	1-5%
CAS number: 80-56-8	EC number: 201-291-9
M factor (Acute) = 1	M factor (Chronic) = 1
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	
Sabinene	1-5%
CAS number: 3387-41-5	EC number: 222-212-4
M factor (Acute) = 1	
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400	
Linalool	<4%
CAS number: 78-70-6	EC number: 201-134-4
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317	
Alpha Terpinyl Acetate	1-5%
CAS number: 80-26-2	EC number: 201-265-7
Classification Aquatic Chronic 2 - H411	
Terpinene-1-ol-4	1-5%
CAS number: 562-74-3	EC number: 209-235-5
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

EUCALYPTUS AUSTRALIANA OIL

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Aspiration hazard if swallowed. Do not induce vomiting. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water or use an approved skin cleanser. Continue to rinse for at least 15 minutes. Get medical attention.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

General information Observe risk of aspiration if vomiting occurs.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use as appropriate carbon dioxide (CO₂), dry chemical or foam

Unsuitable extinguishing media For safety reasons do not use full water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards No data available.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters Wear full protective clothing

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation of the working area, evacuate personnel to safe area, wear suitable protective equipment. Keep unnecessary and unprotected personnel away from the spillage. No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

EUCALYPTUS AUSTRALIANA OIL

Methods for cleaning up

Absorb with inert, non-combustible, inorganic absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite). Sweep up and remove to an approved disposal container. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13. Never return spills in original containers for re-use. Ventilate area and wash spill area after material pick up is complete. Wash spill site after material pick up is complete.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. Use personal protection equipment as mentioned under "exposure controls and personal protection". Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Avoid inhalation of vapours. Use only in well-ventilated areas. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Do not empty into drains. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

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

DNEL	Workers - Inhalation; Long term systemic effects: 7.05 mg/m ³ Workers - Dermal; Long term systemic effects: 2 mg/kg, bw/day General population - Inhalation; Long term systemic effects: 1.74 mg/m ³ 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 (Freshwater); Short term 1.425 mg/kg - Sediment (Marinewater); Short term 0.142 mg/kg - Soil; Short term 0.25 mg/kg

(R)-p-mentha-1,8-diene (CAS: 5989-27-5)

DNEL	Workers - Inhalation; Long term systemic effects: 33.3 mg/m ³ General population - Oral; Long term systemic effects: 4.76 mg/kg
PNEC	- STP; 1.8 mg/l - Soil; 0.262 mg/kg - Fresh water; 0.0054 mg/l - Marine water; 0.00054 mg/l - Sediment (Freshwater); 1.32 mg/kg - Sediment (Marinewater); 0.13 mg/kg

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

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

7-methyl-3-methyleneocta-1,6-diene (CAS: 123-35-3)

- DNEL**
- Workers - Dermal; Long term systemic effects: 0.83 mg/kg
 - Workers - Inhalation; Long term systemic effects: 5.83 mg/m³
 - General population - Dermal; Long term systemic effects: 0.42 mg/kg
 - General population - Inhalation; Long term systemic effects: 1.25 mg/m³

- PNEC**
- STP; 0.2 mg/l
 - Soil; 1.015 mg/kg
 - Fresh water; 0.00028 mg/l
 - Marine water; 0.0008 mg/l
 - Sediment (Freshwater); 5.022 mg/kg
 - Sediment (Marinewater); 0.502 mg/kg

Alpha Pinene (CAS: 80-56-8)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 3.8 mg/m³
 - Workers - Dermal; Long term systemic effects: 0.54 mg/kg, bw/day
 - General population - Inhalation; Long term systemic effects: 0.67 mg/m³
 - 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 (Freshwater); Short term 157 mg/kg
 - Sediment (Marinewater); Short term 15.7 mg/kg
 - Soil; Short term 31.7 mg/kg

Linalool (CAS: 78-70-6)

- DNEL**
- Workers - Dermal; Short term systemic effects: 5 mg/kg
 - Workers - Inhalation; Short term systemic effects: 16.5 mg/m³
 - Workers - Dermal; Long term systemic effects: 2.5 mg/kg
 - Workers - Inhalation; Long term systemic effects: 2.8 mg/m³
 - General population - Oral; Short term systemic effects: 1.5 mg/kg
 - General population - Dermal; Short term systemic effects: 2.5 mg/kg
 - General population - Inhalation; Short term systemic effects: 4.1 mg/m³
 - General population - Oral; Long term systemic effects: 0.2 mg/kg
 - General population - Dermal; Long term systemic effects: 1.25 mg/kg
 - General population - Inhalation; Long term systemic effects: 0.7 mg/m³

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PNEC

- STP; Short term 10 mg/l
- Soil; Short term 0.327 mg/kg
- Intermittent release; Short term 2 mg/l
- Fresh water; Short term 0.2 mg/l
- Marine water; Short term 0.02 mg/l
- Sediment (Freshwater); Short term 2.22 mg/kg
- Sediment (Marinewater); Short term 0.222 mg/kg

Alpha Terpinyl Acetate (CAS: 80-26-2)

PNEC

- STP; Short term 10 mg/l
- Fresh water; Short term 6.9 mg/l
- Marine water; Short term 0.69 mg/l
- Sediment (Freshwater); Short term 0.453 mg/kg
- Sediment (Marinewater); Short term 0.045 mg/kg
- Soil; Short term 0.086 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide eyewash station Provide adequate ventilation.

Personal protection

Use personal protection according to Directive 89/686/EEC

Eye/face protection

Approved safety goggles.

Hand protection

Chemical resistant gloves (PVC)

Other skin and body protection

Wear apron or protective clothing in case of contact.

Hygiene measures

Good personal hygiene procedures should be implemented.

Respiratory protection

Generally unnecessary in a well ventilated area.
If ventilation is insufficient, respiratory protection must be worn.

Environmental exposure controls

Do not allow run-off fire fighting to enter drains or water courses. Avoid discharging into drains.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless to pale yellow.
Odour	Characteristic.
Flash point	≥ 42°C
Relative density	0.906 - 0.925 @ 20°C

9.2. Other information

Refractive index	1.457 - 1.470 @ 20°C
Optical Rotation	0 - 10

Hydrocarbon Content**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reactivity The substance is stable under normal storage and handling conditions.

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Avoid contact with the following materials: Strong acids. Strong oxidising agents. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products Heating may generate the following products: Nitrous gases (NO_x). Carbon dioxide (CO₂). Carbon monoxide (CO).

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity - oral**

Notes (oral LD₅₀) No information available.

ATE oral (mg/kg) 7,692.31

Acute toxicity - dermal

Notes (dermal LD₅₀) No information available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

SECTION 12: Ecological Information**12.1. Toxicity**

EUCALYPTUS AUSTRALIANA OIL

Acute toxicity - microorganisms No data available.

Toxicity to soil No data available.

12.2. Persistence and degradability

Biodegradation No information available.

12.3. Bioaccumulative potential

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Avoid releasing into the environment. Do not discharge into drains or watercourses or onto the ground.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1169
UN No. (IMDG)	1169
UN No. (ICAO)	1169
UN No. (ADN)	1169

14.2. UN proper shipping name

Proper shipping name (ADR/RID) EXTRACTS, AROMATIC, LIQUID

Proper shipping name (IMDG) EXTRACTS, AROMATIC, LIQUID

Proper shipping name (ICAO) EXTRACTS, AROMATIC, LIQUID

Proper shipping name (ADN) EXTRACTS, AROMATIC, LIQUID

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels



EUCALYPTUS AUSTRALIANA OIL

14.4. Packing group

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

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS	F-E, S-D
ADR transport category	3
Emergency Action Code	3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

SECTION 15: Regulatory information

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

EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). 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) (as amended). Dangerous Preparations Directive 1999/45/EC.
Guidance	CHIP for everyone HSG228.

15.2. Chemical safety assessment

SECTION 16: Other information

Revision date	01/02/2018
Revision	1
SDS number	5125
Hazard 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. H335 May cause respiratory 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.



Product Specification

PRODUCT DETAILS		
Product Name	EUCALYPTUS AUSTRALIANA OIL	
Product Code	OEEUCAUST	
Tariff Number	33012941	
Country of Origin	South Africa	
INCI Name	Eucalyptus Radiata Flower/Leaf/Stem Oil	
Natural Status	We hereby declare, to the best of our knowledge and from information received from our supplier, that this product is in accordance to the requirements of Articles 3 (2) (d) of Regulation (EC) 1334/2008 and therefore can be designated as natural. This product does not contain any solvents or additives.	
Food Grade Status	We confirm, from information received from our supplier, that this product conforms with EU Regulations and can be used in food.	
Kosher Certified	No	
Halal Certified	We hereby declare, from information received from our supplier, that this product does not contain any ingredient derived from animal origin, extracted from hair or feathers, animal fats, animal extracts, blood of any origin, blood plasma, pork and/or other meat products. This product does not contain alcohol (ethanol or grain alcohol) and has not been used in the manufacturing process.	
GMO Declaration	To the best of our knowledge and from information received from our supplier, this product does not derive from genetically modified starting raw material, or additives that are derived from genetically modified organisms.	
Manufacturing Process	Please request flow chart	
Identification	CAS No: 92201-64-4	EINECS No: 295-995-3
PHYSICAL AND CHEMICAL CHARACTERISTIC		
Appearance	Liquid	
Colour	Colourless to Pale Yellow	
Odour	Characteristic	
Relative Density @ 20°C	0.906 - 0.925	
Refractive Index @ 20°C	1.457 - 1.470	
Optical Rotation °	0 to 10	
Flash Point °C	≥42	
1,8 Cineole Content %	Max 72%	
FRAGRANCE ALLERGENS		
Geraniol (10624-1) <1%	Linalool (78-70-6) <4%	Limonene(5989-27-5) 5-10%
FOOD ALLERGENS		
NONE PRESENT		
IFRA		
Geraniol (10624-1) <1%		
STORAGE AND SHELF LIFE		
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.	

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