


1. Identification of the substances / mixture and of the company/undertaking.			
1.1 Product identifier: Eucalyptus Globulus Oil			
Substance name: Eucalyptus Globulus Leaf/Twig Oil			
EC NO:	283-406-2	CAS NO:	EINECS CAS Number: 84625-32-1
Index No:		Reach Registration No:	01-2119978250-37-XXXX
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Identified uses: Multiple uses in the Flavour and Fragrance industries.			
Uses advised against:			
1.3 Details of the supplier of the safety data sheet			
Company	Penny Price Aromatherapy Ltd		
	Unit D3 Radius Court		
	Maple Drive		
	Hinckley		
	Leicestershire LE10 3BE		
Email	info@penny-price.com		
1.4 Emergency Telephone Number	00 44 (0) 1455 251020 opening hours Mon – Thurs 9am – 5pm, Fri 9am – 2pm. Or call NHS 111 or NHS 999		

2. Hazards Identification			
2.1 Classification of the substance or mixture			
Classified according to Regulation (EC) 1272/2008 (CLP) as amended	Physical and Chemical Hazards	Flam. Liq. 3 – H226	
	Human Health	Skin Irrit. 2 -H315	Skin Sens. 1 – H317
		Asp. Tox. 1 – H304	
	Environment	Aquatic Chronic. 2 – H411	
	Human Health	The liquid may be irritating to skin. Fatal if swallowed. May cause skin sensitisation or allergic reactions in sensitive individuals.	
	Environmental	The product contains a substance which is toxic to aquatic organisms, and which may cause long-term adverse effects in the aquatic environment.	
	Physiochemical	Flammable liquid and vapour.	
2.2 Label Element Labelling according to Regulation (EC) No.1272/2008:			
			
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.	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.

Precautionary statements.

P273	Avoid release to the environment.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P310+P310	IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
P331	Do NOT induce vomiting.
P391	Collect spillage.
P262	Do not get in eyes, on skin, or on clothing.

Supplementary Precautionary Statements:

P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing vapour/spray.
P264	Wash contaminated skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P321	Specific treatment (see medical advice/attention).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	IF skin irritation or rash occurs: 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.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of content and containers in accordance with local/regional/national/international regulations.

2.3 Other hazards – Results of PBT and vPvB

	No relevant information available.
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3. 1 Composition / information on ingredients:

Substance name	Index number under CLP Annex VI	Weight % content (or range)	CL, M-Factor, ATE
1, 8 Cineole	CAS: 470-82-6 EC: 207-431-5	>=70<=95%	Flam. Liq. 3 – H226 Skin Sens. 1B – H317
Dipentene	CAS: 138-86-3 EC: 205-341-0	>=4<=12%	Flam. Liq. 3 – H226 Skin Irrit. 2 – H315

	M Factor (Acute) = 1 M Factor (Chronic) = 1		Skin Sens. 1- H317 Aquatic Acute. 1 – H400 Aquatic Chronic. 1 – H410
p-Cymene	CAS: 99-87-6 EC: 202-796-7	>=0.01 <=6%	Flam. Liq. 3 – H226 Skin Irrit. 2 -H315 Eye Irrit. 2 – H319 Asp. Tox. 1 – H304
Alpha Pinene	CAS: 80-56-8 EC: 201-291-9 M Factor (Acute) = 1 M Factor (Chronic) = 1	>=0.01 <=9%	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
Alpha Phellandrene	CAS: 99-83-2 EC: 202-792-5	>=0.3 <=3%	Flam. Liq. 3- H266 Asp. Tox. 1 – H304
p-mentha-1, 4 diene	CAS: 99-83-2 EC: 202-794-6	>=0.01 <=6%	Flam. Liq. 3 – H226 Asp. Tox. 1 – H304
p-menthyl-3-methylenecocta-1, 6-diene	CAS: 123-35-3 EC: 204-622-5	>=0.5 <=2%	Flam. Liq. 3 – H226 Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 Skin Sens. 1 – H317 Asp.Tox. 1 – H304 Aquatic Chronic. 3 -H412
Beta Pinene	CAS: 127-91-3 EC: 242-060-2 M Factor (Acute) = 1 M Factor (Chronic) = 1	>=0.01 <=1.5%	Flam. Liq. 3 – H226 Skin Irrit. 2 -vH315 Skin Sens. 1 – H317 Asp.Tox. 1 - H304 Aquatic Acute. 1 – H400 Aquatic Chronic. 1 – H410
p-menth-1-en-8-ol	CAS: 98-55-5 EC: 202-680-6	>=0.01 <=2%	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
The full text of the Hazard Statements is displayed in Section 16.			

4. First Aid Measures

4.1 General	Immediately remove any clothing soiled by the product.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if required.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If irritation persists seek medical advice / attention.
Skin contact	Take off all contaminated clothing. Rinse skin with water/shower. If irritation persists seek medical attention
Ingestion	Rinse mouth out with water. Do NOT induce vomiting. Immediately call POISON CENTER or GP. Do not give milk or fatty oils.

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

	Inhalation	May be fatal if swallowed and enters airways.
	Skin Contact	May cause an allergic skin reaction.
4.3 Indication of any immediate medical attention and special treatment need		
Notes for the Doctor	Treat symptomatically.	
5. Firefighting Measures		
5.1 Extinguishing Media:		
Suitable extinguishing media:	Water spray. Carbon dioxide (CO ₂), dry chemicals, foam.	
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.	
5.2 Special hazards arising from the substances or mixture		
Hazardous combustion products:	Burning produces irritating, toxic and obnoxious fumes.	
Advice for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.	

6 Accidental release measures		
6.1 Personal precautions, protective equipment, and emergency procedures		
6.1.1 For non-emergency personnel		
Protective equipment:		
Emergency procedures:	Provide adequate ventilation, avoid contact with skin and eyes. Avoid inhalation of vapours. Wear protective clothing and gloves.	
6.1.2 For Emergency responders	Wear an appropriate NIOSH/ MSHA approved respirator if mist or vapour is generated.	
6.2 Environmental precautions	Do not discharge into drains or watercourse or onto the ground.	
6.3 Methods for cleaning up –	Absorb with liquid binding material (e.g., sand, diatomaceous earth, acid, or universal binding agents). Collect in closed and suitable containers for disposal.	
6.3.1 For containment:		
6.3.2 For cleaning up:		
6.3.3. Other information:		
6.4 Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.	

7. Handling and storage		
7.1 Precautions for safe handling	Use Precautions	Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. Provide adequate ventilation. Keep away from heat, sparks, and open flame.
	Advice on General Occupational Hygiene	Do not eat, drink, or smoke when using this product. Wash hands thoroughly after handling. Remove contaminated clothing and

		protective equipment before entering eating areas.
Protective measures: Prevent formation of aerosols. Handle in a well-ventilated area, away from sources of ignition. DO NOT SMOKE.		
Measures to prevent fire:		
Measures to prevent aerosol and dust generation:		
Measures to protect the environment:		
Advice on general occupational hygiene:		
7.2 Conditions for safe storage, including any incompatibilities		
Technical measures and storage conditions:		
Packaging Materials:		
Requirements for storage and vessels:		
Storage Class: Further information on storage containers:	Store in tightly closed, original container in a dry, cool and well-ventilated place.	
7.3 Specific end use(s).		
Recommendations:		
Industrial sector specific solutions:		

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 mg/kg, bw/day General Population – Oral; Long-term systemic effects: 600 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 Marine water; Intermittent release: 0.303 mg/l STP; Short-term: 0.2 mg/l Sediment (Freshwater); Short-term: 1.425 mg/kg Sediment (Marine water); Short-term: 0.142 mg/kg Soil; Short-term: 0.25 mg/kg
Alpha Pinene CAS: 80-56-8	DNEL	Workers – Inhalation; Long-term systemic effects: 3.8 mg/m ³ Workers – Dermal; Long-term systemic effects: 0.54 mg/kg, bw/day General Population; - Inhalation; Long-term systemic effects: 0.67 mg/m ³ 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; Short-term: Intermittent release: 3.03 mg/l Marine water; Short-term: 0.061 mg/l Marine water; Intermittent release: 0.303 mg/l STP; Short-term: 0.2 mg/l Sediment (Freshwater); Short-term: 157 mg/kg Sediment (Marine water); Short-term: 15.7 mg/kg Soil; Short-term: 31.7 mg/kg
7-methyl-3-methyleneocta-1, 6 diene CAS:123-33	DNEL	Workers-Inhalation; Long-term systemic effects: 5.83 mg/m ³ Workers – Dermal; Long-term systemic effects: 0.83 mg/kg, bw/day General Population – Inhalation: Long-term systemic effects: 1.25 mg/m ³ General Population – Dermal: Long-term systemic effects: 0.42 mg/kg, bw/day
	PNEC	Fresh water: 0.00028 mg/l Marine water: 0.0008 mg/l STP; Short-term: 0.2 mg/l Sediment (Freshwater); 5.022 mg/kg Sediment (Marine water): 0.502 mg/kg

		Soil: 1.015 mg/kg
Beta Pinene CAS: 127-91-3	DNEL	Workers – Inhalation; Long-term systemic effects: 5.69 mg/m ³ Workers – Dermal; Long-term systemic effects: 0.8 mg/kg, bw/day General Population; Inhalation; Long-term systemic effects; 1 mg/m ³ General Population; Dermal; Long-term systemic effects; 0.3 mg/kg, bw/day General Population; Oral; Long-term systemic effects; 0.3 mg/kg, bw/day
	PNEC	Fresh water; Short-term: 1.004 mg/l Fresh water; Intermittent release: 5.02 mg/l Marine water; Short-term: 0.1 mg/l STP; Short-term: 3.26 mg/l Sediment (Freshwater); Short-term: 0.337 mg/kg Sediment (Marine water); Short-term: 0.034 mg/kg Soil; Short-term: 0.067 mg/kg
p-menth-1-en-8-ol CAS:98-55-5	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 (Marine Water); Short-term: 0.185 mg/kg Soil; Short-term: 0.329 mg/kg
8.2 Exposure controls		
8.2.1 Appropriate Engineering Controls	Provide adequate ventilation. Facilities storing or utilizing this material should be equipped with an eye wash facility and a safety shower.	
8.2.2 Personal Protection equipment:	Protective gloves/ protective clothing/ face protection.	
8.2.2.1 Eye / face protection	Wear face protection.	
8.2.2.2 Skin Protection	Wear protective clothing in case of contact. Good personal hygiene procedures should be implemented.	
Hand protection	Chemical resistant gloves (PVC).	
Other skin protection		
8.2.2.3 Respiratory protection	Generally unnecessary in a well-ventilated area. If ventilation is insufficient, respiratory protection must be worn.	
Ventilation		
8.2.2.4 Thermal hazards	Wear suitable protective clothing to prevent heat.	
8.2.3 Environmental exposure controls	Avoid discharging into drains.	
9. Physical and chemical properties- C of A		
9.1 Information on basic physical and chemical properties		
Colour	Colourless to pale yellow.	
Appearance	Liquid	
Odour		
Melting Point / freezing point	+5 to -20°C	

Boiling point /Initial boiling point & boiling range	153 to 184°C
Flammability	
Lower and upper explosion limit	Technically not feasible.
Flash point °C	45.5 to 46.5°C Pensky-Martens Closed Cup
Auto- ignition temperature	270°C
Decomposition temperature	
pH	
Kinematic Viscosity	2.456 mPa s @ 20°C 1.627 mPa s @ 40°C
Solubility in Water	
Solubility in other Solvents	
Partition coefficient n-octanol/ water (log value)	Eucalyptus is a natural complex substance. It is a mixture of several components, but three of them is represent 90% of that mixture. LogP of each of these three components were calculated with the In-Silico Algorithm for Environment Risk Assessment toolbox, multilinear V.1.1. the range of the LogP varies as below. Log Pow: 2.84 to 4.42
Vapour Pressure @ 25°C	Ca 262 Pa
Density and /or relative density	
Relative vapour density	
Particle characteristics	
Explosive Properties	Scientifically unjustified.
Oxidising Properties	
9.2 Other information	
Specific gravity d ₂₀ ²⁰	
Optical rotation @ 20°C	
Refractive index @ 20°C	1.457 to 1.467
Typical analysis of major components	

10. Stability and reactivity

10.1 Reactivity	The substance is stable under normal storage and handling conditions.
10.2 Chemical Stability	Stable at normal ambient temperatures.
10.3 Possibility of hazardous reactions:	None known.
10.4 Conditions to avoid:	Avoid heat, flames, and other sources of ignition.
10.5 Incompatible Materials:	Strong oxidising agents. Strong reducing agents.
10.6 Hazardous Decomposition Products	Carbon dioxide (CO ₂). Carbon monoxide (CO).

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272 /2008

Information on Toxicological Effects	
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Acute Toxicity: - Oral	Notes (Oral LD50)	REACH dossier information. The oral LD50 for Eucalyptus oil is higher than 2000 mg/kg, bw in mice therefore it is not classified according to Annex VI to the Directive 67/548/EEC and the CLP Regulation (EC) No. (1272/2008).
Acute Toxicity - Dermal	Notes (Dermal LD50)	REACH dossier information. The dermal LD50 for Eucalyptus oil is higher than 5000 mg/kg bw in rabbits therefore it is not classified according to Annex VI to the Directive 67/548/EEC and the CLP Regulation (EC) no. (1272/2008).
Skin corrosion /irritation:	REACH dossier information. Irritating to skin.	
Seriously eye damage/irritation:	No further relevant information available.	
Respiratory or skin sensitisation:	No further relevant information available.	
Germ cell mutagenicity:	No further relevant information available.	
Carcinogenicity:	No further relevant information available.	
Reproductive toxicity:	No further relevant information available.	
Summary of evaluation of the CMR properties:		
STOT- single exposure,	No further relevant information available.	
STOT-repeated exposure:	No further relevant information available.	
Aspiration hazard:	No further relevant information available.	



12. Ecological information	
12.1 Toxicity	No data available.
12.2 Persistency & degradability	Biodegradation: The substance is readily biodegradable.
12.3 Bio accumulative potential	Partition Coefficient: Eucalyptus is a natural complex substance. It is a mixture of several components, but three of them represent 90% of that mixture. LogP of each of these three components were calculated with the In-Silico Algorithm for Environmental Risk Assessment toolbox, multilinear V.1.1. the range of the LogP varies as below. Log Pow: 2.84 to 4.42
12.4 Mobility in soil	
12.5 Results of PBT and vPvB Assessment	This product does not contain any substances classified as PBT or vPvB.
12.6 Endocrine disrupting properties	
12.7 Other adverse effects	

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13. Disposal considerations

13.1 Waste treatment methods	
13.1.1. Product /Packaging disposal:	Recycling is preferred to disposal or burning. Disposal must be made according to official regulations. Must not be disposed together with household waste.
13.1.2 Waste treatment-relevant information:	
13.1.3 Sewage disposal-relevant information:	
13.1.4 Other disposal-relevant recommendations:	Dispose of contents / containers in accordance with local /regional / national / international regulations.

14. Transport information

14.1 UN Number ADR/RID, IMDG, ICAO, ADN	1169
14.2 UN proper Shipping name ADR/RID, IMDG, ICAO, ADN	EXTRACTS, AROMATIC, LIQUID
14.3 Transport hazard class(es) ADR/RID, IMDG, ICAO, ADN	 3
Class ADR / RID Classification Code	F1
14.4 Packing group ADR/RID, IMDG, ICAO, ADN	111
14.5 Environmental hazards	 Environmentally hazardous substance / marine pollutant.
14.6 Special precautions for user EnS ADR Transport Category Emergency Action Code Hazard Identification Number (ADR/RID) Tunnel Restriction Code	F-E, S-D 3 3Y 30 (D/E)
14.7 Maritime transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	

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 th December 2008 on classification, labelling and packaging of substances and mixtures (as amended).	
Guidance	CHIP for everyone HSG228	
15.2 Chemical Safety Assessment	EU-EINECS / ELINCS	Complies
	Canada -DSI / NDSL	Complies
	US -TSCA	Complies
	US – TSCA 12(b) Export Notification	Not listed
	Australia – AICS	Complies
	Japan – ENCS	Complies
	Korea – KECL	Complies
	China - IECSC	Complies
	Philippines – PICCS	Complies
	New Zealand – NZIOC	Complies
Taiwan	Complies	

16. Other information	
(i)	Indication of Changes: Revised Safety Data Sheet Format: From March 2019. – Section 2 and 3 have changed places, additional points added under each section in line with Regulation EC) No 1272/2008 Version 4.2 March 2021’.
(ii)	<p>Abbreviations and acronyms:</p> <p>RID: Reglement international concernant le transport des marschandisers dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Good by Rail).</p> <p>IATA-DGR: Dangerous Goods Regulations by the “International Air Transport Association” (LATA)</p> <p>ICAO: International Civil Aviation Organisation</p> <p>ICAO-TI: Technical Instructions by the ‘International Civil Aviation Organisation” (ICAO)</p> <p>ADR: Accord eurpeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</p> <p>IMDG: International Maritime Code for Dangerous Goods</p> <p>IATA: International Air Transport Association</p> <p>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</p> <p>EINECS: European Inventory of Existing Commercial Chemical Substances</p> <p>ELINCS: European List of Notified Chemical Substances</p> <p>CAS: Chemical Abstracts Service (division of the American Chemical Society)</p> <p>LC50: Lethal concentration, 50 percent</p> <p>LD50: Lethal Dose, 50 percent</p> <p>PBT: Persistent, Bio accumulative and Toxic</p> <p>vPvB: Very Persistent and very Bio accumulative</p> <p>Flam. Liq: Flammable Liquid</p> <p>AT: Acute Toxicity</p> <p>Asp: Aspiration Hazard</p> <p>Skin Corr/ Irrit: Skin Corrosion / Irritation</p>

Skin Sens: Skin Sensation
Eye Dam/ Irrit: Eye damage / Irritation
Muta: Mutagenic
Carc: Carcinogenic
Resp: Respiration Sensitive
Repro: Reproductive Sensitive
EH A: Environmental Hazard Aquatic Acute
EH C: Environmental Hazard Aquatic Chronic

(iii) Key Literature references and sources of date.

Food Cosmetics Toxicology 16 695 (1978)

(iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP):

Classification according to Regulation (EC) 1272/2008(CLP)	Classification procedure
(v) Relevant H-statements (number and full text):	
(vi) Training advice:	
(vii) Further information:	
Shelf life	Minimum 12 months when stored in the advised conditions.

QC requirements

In line with general product specification. Always satisfy suitability for specific application. Retest after 6 months.

Disclaimer:

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is date supplied without warranty, expressed, or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product and to assume liability for loss, injury, damage, or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification or for any given application and buyers should seek to verify their requirements and product use.