Penny Price Aromatherapy/ Aroma Formulations
SAFETY DATA SHEET
According to Regulation (EC) No.1272/2008

1. Identification of the substances / mixture and of the company/undertaking.		
1.1 Product identifier: Eucalyptus Citriodora Oil		
Substance name: Eucalyptus Maculata Citriodora		
EC NO: 286-249-8	**CoE Number: 186**	**EINECS CAS Number: 85203-56-1**
FEMA Number: 2466	**Reach Registration No: 01-2120741486-50-XXXX**	
1.2 Relevant identified uses of the substance or mixture and uses advised against		
Identified uses: Industrial, only for professional use.		
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	Not classified.	
	Human Health	Skin Irrit. 2 -H315	Eye Irrit. 2 -H319
		Skin Sens. 1 – H317	
	Environment	Aquatic Chronic. 2 – H411	
		The product contains a substance which is toxic to aquatic organisms, and which may cause long-term adverse effects in the aquatic environment.	

2.2 Label Element Labelling according to Regulation (EC) No.1272/2008:

Signal Word. WARNING

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

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.

Precautionary statements.	
P261	Avoid breathing vapour / spray
P264	Wash contaminated skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out if the workplace.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
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.
P321	Specific treatment (see medical advice on this label).
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.
P391	Collect spillage
P501	Dispose of contents / container in accordance with national regulations.
2.3 Other hazards – Results of PBT and vPvB	
	No relevant information available.

3. 1 Composition / information on ingredients:			
Substance name	**Index number under CLP Annex VI**	**Weight % content (or range)**	**CL, M-Factor, ATE**
(+)-Citronellal	CAS: 1117-61-9 EC: 219-194-5	70-85%	Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 SKIN Sens. 1B – H317 Aquatic Chronic. 2 -H411
B-(+)- Citronellol	CAS: 1117-61-9 EC: 214-250-5	>+1<+12%	Skin Irrit. 2- H315 Eye Irrit. 2 – H319 Skin Sens. 1B – H317
Iso Pulegol	CAS: 89-79-2 EC: 201-940-6	3-15%	Acute Tox. 4 – H302 Skin Irrit. 2 -H315 Eye Irrit. 2 – H319
Alpha Pinene	CAS: 80-56-8 EC: 201-291-9 M Factor (Acute) =1	0.01-3%	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 -H400
Neo Iso Pulegol	CAS: 9912-21-4	0.01 -7%	Acute Tox. 4 - H302

			Skin Irrit. 2 – H315 Eye Irrit. 2 – H319
Beta Caryophyllene	CAS: 87-44-5 EC: 201-746-1	<0.01-2%	Skin Sens. 1B – H317 Asp. Tox. 1 -H304
Citronellyl Acetate	CAS: 150-84-5 EC: 205-775-0	<0.01-4%	Skin Irrit. 2 – H315 Aquatic Chronic. 2 - H411
6-Methyl-5-hepten-2-one	CAS: 110-93-0 EC: 203-816-7	<0.01-4%	Flam. Liq. 3 – H226
Cis-beta-Ocimene	CAS: 3338-55-4 EC: 222-081-3	<0.01-1%	Flam. Liq. 3 - H226 Asp. Tox. 1 – H304
(S)-p-mentha-1,8-diene	CAS: 5989-54-8 EC: 227-815-6 M Factor (Acute) =1 M Factor (Chronic)= 1	<0.01-1%	Flam. Liq. 3 - H226 Skin Irrit. 2 – H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute. 1 - H400 Aquatic Chronic. 1 - H410
a terpinolene	CAS: 586-62-9 EC: 209-578-0 M Factor (Acute) = 1 M Factor (Chronic) =1	<0.01-1%	Skin Sens. 1 -H317 Asp. Tox. 1 – H304 Aquatic Acute. 1 - H400 Aquatic Chronic. 1 - H410
(-)-linalool	CAS: 126-91-0 EC: 204-811-2	<0.01-1%	Skin Irrit. 2- H315 Eye Irrit. 2 -H319 Skin Sens. 1B – H317
7-methyl-3-methyleneocta-1, 6-diene	CAS: 123-35-3 EC: 204-622-5	<0.01-1%	Flam. Liq. 3 – H226 Skin Irrit. 2 - H315 Eye Irrit. 2 – H319 Skin Sens. 1 – H317 Asp. Tox. 1 – H304 Aquatic Chronic. 3 – H412
The full text of all Hazard Statements is displayed in Section16.			

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.
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:	
	No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment need	
	Treat symptomatically.

5. Firefighting Measures	
5.1 Extinguishing Media:	
Suitable extinguishing media:	Use an appropriate: Carbon dioxide (CO2), dry chemical or 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:	In case of fire, toxic fumes like Carbon monoxide and Carbon dioxide may be liberated. Burning produces heavy smoke.
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: Provide adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours. Wear protective clothing and gloves.	
6.1.1 For non-emergency personnel	
Protective equipment:	
Emergency procedures:	
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 watercourses or onto the ground.
6.3 Methods for cleaning up – 6.3.1 For containment:	Absorb with liquid binding material (e.g., sand, diatomaceous earth, acid, or universal binding agents). Collect in closed and suitable container for disposal.
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: 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 flames.	
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:	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.
7.2 Conditions for safe storage, including any incompatibilities: Store in tightly closed, original container in a dry, and well-ventilated place.	
Technical measures and storage conditions:	
Packaging Materials:	
Requirements for storage and vessels:	
Storage Class: Further information on storage containers:	
7.3 Specific end use(s).	
Recommendations:	
Industrial sector specific solutions:	

8. Exposure controls/Personal protection		
8.1 Control parameters		
	DNEL	General Population – Inhalation; Long-term systemic effects: 2.22 mg/m^3 General Population – Inhalation; Systemic effects – Acute: No hazard identified General Population – Inhalation; Long-term local effects: No hazard identified. General Population – Inhalation; Local effects – Acute: No hazard identified. General Population – Dermal; Long-term systemic effects: 8 mg/kg, bw/day General Population – Dermal: Systemic effects – Acute: No hazard identified. General Population – Dermal; Long-term local effects: Medium hazard (no threshold derived), Sensitisation (Skin)

		General Population – Dermal; Local effects – Acute: Skin Irritation, Low hazard (no threshold derived), Corrosion General Population – Oral; Long term systemic effects: 1.28 mg/kg/bw/day General Population – Oral; Systemic effects – Acute: No hazard identified. General Population – Eyes; Local effects: Low hazard (no threshold derived)
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: 0.19mg/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 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
Citronellyl Acetate **CAS: 150-84-5**	DNEL	Workers – Inhalation; Long term systemic effects; 17mg/m^3 Workers – Dermal; Long-term systemic effects: 4.8 mg/kg, bw/day General Population – Inhalation; Long term systemic effects: 4.2 mg/m^3 General Population – Dermal; Long term systemic effects: 2.4mg/kg, bw/day General Population – Oral; Long term systemic effects: 2.4 mg/kg, bw/day
	PNEC	Fresh Water; Short-term: 0.003 mg/l Fresh Water; Intermittent Release; 0.035 mg/l Marine Water; Short-term: 0 mg/l STP: Short-term: 10mg/l Sediment (Freshwater); Short-term: 0.851 mg/kg Sediment (Marine water); Short-term: 0.085 mg/kg Soil; Short-term: 0.167 mg/kg
a terpinolene **CAS: 586-62-9**	DNEL	Workers -Inhalation; Long-term systemic effects: 3.6 mg/m^3 Workers – Dermal; Long-term systemic effects: 0.52 mg/kg, bw/day

		General Population – Inhalation; Long-term systemic effects: 0.9 mg/m^3 General Population – Dermal; Long-term systemic effects: 0.26 mg/kg, bw /day General Population – Oral; Long-term systemic effects: 0.26 mg/kg, bw/day
	PNEC	Fresh Water; Short-term: 0.634 mg/l Fresh Water; Intermittent Release: 0.634 mg/l Marine Water; Short-term: 0.063 mg/l STP: Short-term: 0.2 mg/l Sediment (Freshwater); Short-term: 14.7 mg/kg Sediment (Marine water); Short-term: 14.7 mg/kg Soil; Short-term: 29.1 mg/kg
7-methyl-3-methyleneocta-1,6-diene **CAS: 123-35-3**	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: 0.2 mg/l Sediment (Freshwater): 5.022 mg/kg Sediment (Marine Water): 0.502 mg/kg Soil: 1.015 mg/kg
8.2 Exposure controls		
Engineering Measures	Provide adequate ventilation.	
8.2.2 Personal Protection 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 eyes and skin. Good personal hygiene procedures should be implemented.		
8.2.2.1 Eye / face protection	Approved safety goggles.	
8.2.2.2 Skin Protection		
Hand protection	Chemical resistant gloves (PVC).	
Other skin protection	Protective gloves/ protective clothing/ eye 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		
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	Pale yellow
Appearance	Liquid
Odour	Characteristic
Melting Point / freezing point	-20°C
Boiling point /Initial boiling point & boiling range	93±10°C @ 101 325 Pa.
Flammability	
Lower and upper explosion limit	
Flash point ^{0}C	73.7°C
Auto- ignition temperature	225°C
Decomposition temperature	
pH	
Kinematic Viscosity	
Solubility(ies)	>10M, g/l water @20°C
Solubility in other Solvents	
Partition coefficient n-octanol/ water (log value)	Low Pow: 3.62 @ 25°C
Vapour Pressure	47.5 Pa @ 25°C
Density and /or relative density	
Relative vapour density	
Particle characteristics	
Explosive Properties	
Oxidising Properties	
9.2 Other information	
Specific gravity d $_{20}$ ^{20}	0.858 to0.880 @ 20°C
Optical rotation @ 20^{0}C	-2-to-4 @ 20°C
Refractive index @ 20^{0} C	1.4500 to 1.4590 @ 20°C
Typical analysis of major components	

10. Stability and reactivity	
10.1 Reactivity	No hazardous reactions if stored and handled as prescribed / indicated.
10.2 Chemical Stability	Stable under the prescribed storage conditions.
10.3 Possibility of hazardous reactions:	
10.4 Conditions to avoid:	Keep away from heat, sparks, and open flames.
10.5 Incompatible Materials:	Strong oxidising agents. Strong acids. Bases.
10.6 Hazardous Decomposition Products	

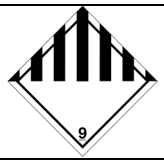
11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272 /2008			
Information on Toxicological Effects	Acute Toxicity – Oral.	ATE Oral	8650.52 mg/kg
Skin corrosion /irritation:			
Seriously eye damage/irritation:			
Respiratory or skin sensitisation:			
Germ cell mutagenicity:			
Carcinogenicity:			
Reproductive toxicity:			
Summary of evaluation of the CMR properties:			
STOT- single exposure,			
STOT-repeated exposure:			
Aspiration hazard:			

12. Ecological information		
12.1 Toxicity	Acute Toxicity – Fish	LL50, 96 hours: 4.2 mg/l, Freshwater fish
	Acute Toxicity- Aquatic Invertebrates	EL50, 48 hours: 20 mg/l, Freshwater invertebrates
	Acute Toxicity – Aquatic Plants	EC50, 72 hours: 18 mg/l, Freshwater algae NOEC, 72 hours: 12 mg/l, Freshwater algae
12.2 Persistency & degradability	The product is readily biodegradable.	
12.3 Bio accumulative potential	Further B/vB assessment is not relevant as none of the known constituents of Eucalyptus Citriodora are P (or vP)	
Partition Coefficient	Low Pow: 3.62: 25°C	
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		

13. Disposal considerations

13.1 Waste treatment methods	Dispose of contents/ containers in accordance with local /regional / national / international regulations.
13.1.1. Product /Packaging disposal:	
13.1.2 Waste treatment-relevant information:	
13.1.3 Sewage disposal-relevant information:	
13.1.4 Other disposal-relevant recommendations:	

14. Transport information	
14.1 UN Number or ID number ADR/RID, IMDG, ICAO, ADN	3082
14.2 UN proper Shipping name ADR/RID, IMDG, ICAO, ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class(es) ADR/RID, IMDG, ICAO, ADN	9
ADR/RID Classification Code	M6
Transport Labels	
14.4 Packing group ADR/RID, IMDG, ICAO, ADN	III
14.5 Environmental hazards	 Environmentally hazardous substance / marine pollutant
14.6 Special precautions for user Ems ADR Transport Category Emergency Action Code Hazard Identification Number (ADR/RID) Tunnel Restriction Code	 F-A, S-F 3 ● 3Z 90 €
14.7 Maritime transport in bulk according to IMO instruments	

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 16th 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 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Guidance	CHIP for everyone HSG228
15.2 Chemical Safety Assessment	

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) Abbreviations and acronyms:

RID: Reglement international concernant le transport des marschandisers dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Good by Rail).
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (LATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the 'International Civil Aviation Organisation" (ICAO)
ADR: Accord eurpeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal Dose, 50 percent
PBT: Persistent, Bio accumulative and Toxic
vPvB: Very Persistent and very Bio accumulative
Flam. Liq: Flammable Liquid
Acute. Tox: Acute Toxicity
Asp: Aspiration Hazard
Skin Corr/ Irrit: Skin Corrosion / Irritation
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.