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: Palmarosa Oil Indian		
Substance name: Cymbopogon Martini Oil		
Biological Definition		
INCI Name		
Synonyms & Trade Names	FEMA Number: 2831	
EC NO: 283-461-2	**CAS NO:** 8014-19-5	**EINECS CAS Number:** 84649-81-0
Index No:	**Reach Registration No:**	
1.2 Relevant identified uses of the substance or mixture and uses advised against		
Identified uses: Fragrance and flavour.		
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	Skin Sens. 1 – H317
		Eye Dam. 1 – H319	
	Environment	Aquatic Chronic. 3- H412	
	Human Health	May cause skin irritation. May cause an allergic skin reaction. May cause serious eye damage.	
	Environmental	Harmful to aquatic life with long lasting effects.	
2.2 Label Element Labelling according to Regulation (EC) No.1272/2008: 			
Signal Word. Danger			
Contains	Geraniol Geranyl Acetate Linalool Citral Nerol Beta Caryophyllene Farnesol		

	(S)-p-mentha-1,8-diene a terpinolene		
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.
H318	Causes serious eye damage	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.			
P262	Do not get in eyes, on skin, or on clothing.		
P273	Avoid release to the environment.		
P280	Wear protective gloves/ protective clothing/ eye protection / face protection.		
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.		
Supplementary Precautionary Statements:			
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.		
P310	Immediately call a POISON CENTRE / doctor.		
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.		
P501	Dispose of contents / container in accordance with local/ regional / national/ international regulations.		
2.3 Other hazards – Results of PBT and vPvB According to Annex XIII			
Adverse Physio-chemical Properties			
Adverse Effects on Human Health			

3. 1 Composition / information on ingredients:

Substance name	**Index number under CLP Annex VI**	**Weight % content (or range)**	**CL, M-Factor, ATE**
Geraniol	CAS: 106-24-1 EC: 203-377-1	>70<90%	Skin Irrit. 2 – H315 Eye Dam. 1 – H318 Skin Sens. 1 – H317
Geranyl Acetate	CAS: 105-87-3 EC: 203-341-5	>5<20%	Skin Irrit. 2 – H315 Skin Sens. 1B – H317

			Aquatic Chronic 3 – H412
Linalool	CAS: 78-70-6 EC: 201-134-4	1-5%	Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 Skin Sens. 1 – H317
trans-ocimene	CAS: 13877-91-3 EC: 237-641-2 M Factor (Acute) = 1	1-5%	Flam. Liq. 3 – H226 Skin Irrit. 2 – H315 Asp. Tox. 1 – H304 Aquatic Acute 1 – H400 Aquatic Chronic 2 – H411
Citral	CAS: 5392-40-5 EC: 226-394-6	1-5%	Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 Skin Sens. 1 – H317
Nerol	CAS: 106-25-2 EC: 203-378-7	<3%	Skin Irrit. 2 – H315 Eye Dam. 1 – H318 Skin Sens. 1 – H317
Beta Caryophyllene	CAS: 87-44-5 EC: 201-746-1	1-5%	Skin Sens. 1B – H317 Asp. Tox. 1 – H304 Aquatic Chronic 4 – H413
Farnesol	CAS: 4602-84-0 EC: 225-004-1 M Factor (Acute) = 1 M Factor (Chronic) = 1	0.01-5%	Skin Irrit. 2 – H315 Skin Sens. 1 – H317 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410
(S)-p-mentha-1,8-diene	CAS: 5989-54-8 EC: 227-815-6 M Factor (Acute) = 1 M Factor (Chronic) = 1	0.01-5%	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	<1%	Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 Skin Sens. 1 – H317 Asp. Tox. 1 – H304 Aquatic Chronic 2 – H411
The full text of all Hazard Statements is displayed in Section 2.			

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:	
	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 as appropriate: Carbon dioxide (CO2), dry chemical or foam.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spreads 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.
5.3 Advice for firefighters	Use protective equipment appropriate for surrounding materials.

6 Accidental release measures	
6.1 Personal precautions, protective equipment, and emergency procedures	
6.1.1 For non-emergency personnel	
Protective equipment:	Provide adequate ventilation. avoid contact with skin and eyes. Avoid inhalation of vapours. Wear protective clothing and gloves
Emergency procedures:	
6.1.2 For Emergency responders	
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 containers 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	
Protective measures: Prevent formation of aerosols. Handle in a well-ventilated area, away from sources of ignition. DO NOT SMOKE. Apply good manufacturing practice and industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink, or smoke whilst handling.	
Measures to prevent fire:	Keep containers sealed when not in use. Keep away from heat, sparks, and open flame.
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	
Technical measures and storage conditions:	
Packaging Materials:	
Requirements for storage and vessels:	Store in tightly closed, original container in a dry, cool and well-ventilated place.
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		
Geraniol (CAS: 106-24-1)	DNEL	Workers – Inhalation; Long-term systemic effects: 161.6 mg/m³ Workers – Dermal; Long-term systemic effects: 12.5 mg/kg, bw/day General Population – Inhalation; Long-term systemic effects: 47.8 mg/m³

		General Population – Dermal; Long-term systemic effects: 7.5 mg/kg, bw/day General Population – Oral; Long-term systemic effects: 13.75 mg/kg, bw/day
	PNEC	Fresh Water; Short-term: 0.011 mg/l Fresh Water; Intermittent Release: 0.108 mg/l Marine Water; Short-term: 0.001 mg/l STP; Short-term: 0.7 mg/l Sediment (Freshwater); Short-term: 0.115 mg/kg Sediment (Marinewater); Short-term: 0.011 mg/kg Soil; Short-term: 0.017 mg/kg
Geranyl Acetate (CAS: 105-87-3)	DNEL	Workers – Inhalation; Long-term systemic effects: 62.59 mg/m^3 Workers – Dermal; Long-term systemic effects: 35.5 mg/kg, bw/day General Population – Inhalation; Long-term systemic effects: 15.4 mg/m^3 General Population – Dermal; Long-term systemic effects: 17.75 mg/kg, bw/day General Population – Oral; Long-term systemic effects: 8.9 mg/kg, bw/day
	PNEC	Fresh Water; Short-term: 3.72 mg/l Fresh Water; Intermittent Release: 37.2 mg/l Marine Water; Short-term: 0.372 mg/l STP; Short-term: 8 mg/l Sediment (Freshwater); Short-term: 0.442 mg/kg Sediment (Marinewater); Short-term: 0.044 mg/kg Soil; Short-term: 0.086 mg/kg
Linalool (CAS: 78-70-6)	DNEL	Workers – Inhalation; Short-term systemic effects: 16.5 mg/m^3 Workers – Dermal; Short-term systemic effects: 5 mg/kg, bw/day Workers – Inhalation; Long-term systemic effects: 2.8 mg/m^3 Workers – Dermal; Long-term systemic effects: 2.5 mg/kg, bw/day General Population – Inhalation; Short-term systemic effects: 4.1 mg/m^3 General Population – Dermal; Short-term systemic effects: 2.5 mg/kg, bw/day General Population – Oral; Short-term systemic effects: 1.5 mg/kg, bw/day General Population – Inhalation; Long-term systemic effects: 0.7 mg/m^3 General Population – Dermal; Long-term systemic effects: 1.25 mg/kg, bw/day General Population – Oral; Long-term systemic effects: 0.2 mg/kg, bw/day
	PNEC	Fresh Water; Short-term: 0.2 mg/l Fresh Water; Intermittent Release: 2 mg/l Marine Water; Short-term: 0.02 mg/l STP; Short-term: 10 mg/l Sediment (Freshwater); Short-term: 2.22 mg/kg Sediment (Marinewater); Short-term: 0.222 mg/kg Soil; Short-term: 0.327 mg/kg

Citral (CAS: 5392-40-5)	DNEL	Workers – Inhalation; Long-term systemic effects: 9 mg/m³ Workers – Dermal; Long-term systemic effects: 1.7 mg/kg, bw/day General Population – Inhalation; Long-term systemic effects: 2.7 mg/m³ General Population – Dermal; Long-term systemic effects: 1 mg/kg, bw/day General Population – Oral; Long-term systemic effects: 0.6 mg/kg, bw/day
	PNEC	Fresh Water; Short-term: 0.00678 mg/l Fresh Water; Intermittent Release: 0.0678 mg/l Marine Water; Short-term: 0.000678 mg/l STP; Short-term: 1.6 mg/l Sediment (Freshwater); Short-term: 0.125 mg/kg Sediment (Marinewater); Short-term: 0.0125 mg/kg Soil; Short-term: 0.0209 mg/kg
a terpinolene (CAS: 586-62-9)	DNEL	Workers – Inhalation; Long-term systemic effects: 3.6 mg/m³ Workers – Dermal; Long-term systemic effects: 0.52 mg/kg, bw/day General Population – Inhalation; Long-term systemic effects: 0.9 mg/m³ 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 (Marinewater); Short-term: 14.7 mg/kg Soil; Short-term: 29.1 mg/kg
8.2 Exposure controls		
Engineering Measures	Ensure good ventilation of working area.	
8.2.2 Personal Protection equipment: Safety googles / gloves / overalls – Use personal protection according to Directive 89/686 / EEC		
8.2.2.1 Eye / face protection	Approved safety googles.	
8.2.2.2 Skin Protection		
Hand protection	Chemical resistant gloves (PVC)	
Other skin protection	Wear apron or protective clothing in case of contact. Good personal hygiene procedures should be implemented.	
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		
9. Physical and chemical properties- C of A		
9.1 Information on basic physical and chemical properties		

Colour	Pale yellow to dark yellow.
Appearance	Liquid
Odour	Sweet rose like.
Melting Point / freezing point	
Boiling point /Initial boiling point & boiling range	
Flammability	
Lower and upper explosion limit	
Flash point	95 to 105°C
Auto- ignition temperature	
Decomposition temperature	
pH	
Kinematic Viscosity	
Solubility in Water	
Solubility in other Solvents	
Partition coefficient n-octanol/ water (log value)	
Vapour Pressure	
Density and /or relative density	
Relative vapour density	
Particle characteristics	
Explosive Properties	
Oxidising Properties	
9.2 Other information	
Specific gravity @ 20°C	0.875 to 0.895
Optical rotation @ 20^0C	-4 to +3
Refractive index @ 20^0 C	1.465 to 1.485
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. Strong acids.
10.6 Hazardous Decomposition Products	Carbon dioxide (CO2), Carbon monoxide (CO).

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272 /2008	
Information on Toxicological Effects	No information available.
Acute toxicity:	
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	**Ecotoxicity**	Toxic to aquatic life with long lasting effects.
12.2 Persistency & degradability	No data available.	
12.3 Bio accumulative potential	No data available on bioaccumulation.	
12.4 Mobility in soil	No data available.	
12.5 Results of PBT and vPvB Assessment	No data available.	
12.6 Endocrine disrupting properties		
12.7 Other adverse effects	No data available.	

13. Disposal considerations	
13.1 Waste treatment methods	Recycling is preferred to disposal or burning. Disposal must be made according to official regulations. Must not be disposed together with household waste.
13.1.1. Product /Packaging disposal:	
13.1.2 Waste treatment-relevant information:	
13.1.3 Sewage disposal-relevant information:	

13.1.4 Other disposal-relevant recommendations:	Dispose of the contents / container in accordance with local/regional / national / international regulations.

14. Transport information: This product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/ RID)	
14.1 UN Number or ID number	Not applicable.
14.2 UN proper Shipping name	Not applicable.
14.3 Transport hazard class(es)	No transport warning sign required.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.	Not applicable.

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).	
Guidance	CHIP for everyone HSG228	
15.2 Chemical Safety Assessment		
Inventories	EU- EINCECS / ELINCS	Complies
	Canada – DSL/ NDSL	Complies
	US – TSCA	Complies
	US – TSCA 12(b) Export Notification	Complies
	Australia – AICS	Complies
	Japan – ENCS	Complies
	Korea – KECI	Complies
	China – IECSC	Complies
	Philippines – PICCS	Complies
	New Zealand – NZIOC	Complies
	Taiwan – TCSI	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) Abbreviations and acronyms: **DNEL:** Derived No-Effect Level. **PNEC:** Predicted No- Effect Concentration.

ADR: European agreement concerning the international carriage of dangerous goods by road.
RID: Regulations concerning the International carriage of Dangerous goods 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)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ICAO: International Maritime Dangerous Goods.
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)
WGK: Water Hazard Class.
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
AT: Acute Toxicity – O = Oral / D = Dermal / I = Inhalation
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.

(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.	