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: Orange Oil Sweet Brazil		
Substance name:		
Biological Definition		
INCI Name		
Synonyms & Trade Names	**CoE Number: 142**	
EC NO: 232-433-8	**CAS NO: 8008-57-9**	**EINECS CAS Number: 8028-48-6**
FEMA Number: 2825	**Reach Registration No:** 01-2119493353-35-XXXX	
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		
	Human Health		
	Environment		
2.2 Label Element Labelling according to Regulation (EC) No.1272/2008:			
			
Signal Word. DANGER			
Contains	(R)-p-mentha-1, 8-diene 7-methyl-3-methyleneocta-1,6-diene Alpha Pinene Linalool		
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.
H401	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.			
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P241	Use explosion-proof electrical equipment.		
P261	Avoid breathing vapour/spray.		
P273	Avoid release to the environment.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
P301+P310	IF SWALLOWED: Immediately call a POISON CENTRE/doctor.		
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.		
P331	Do NOT induce vomiting.		
P405	Store locked up.		
P501	Dispose of contents/container in accordance with local / regional/ national / international regulations.		
Supplementary Precautionary Statements:			
P233	Keep container tightly closed.		
P240	Ground and bond container and receiving equipment.		
P242	Use only non-sparking tools.		
P243	Take precautionary measures against static discharges.		
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 soap and water.		
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.		
P362+P364	Take off contaminated clothing and wash it before reuse.		
P370+P378	In case of fire: Use foam, Carbon dioxide (CO), dry powder or water fog to extinguish.		
P391	Collect spillage.		
P403+P235	Store in a well-ventilated place. Keep cool.		
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**
(R)-p-mentha-1,8-diene	CAS: 5989-27-5 EC: 227-813-5 M Factor (Acute) = 1	>60<99%	Flam. Liq. 3 – H226 Skin Irrit. 2 – H315 Skin Sens. 1 – H317 Asp. Tox. 1 – H304 Aquatic Acute 1 – H400 Aquatic Chronic 3 – H412
7-methyl-3-methyleneocta1,6-diene	CAS: 123-35-3 EC: 204-622-5 M Factor (Acute) = 1 M Factor (Chronic) = 1	>0.01<5%	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
Alpha Pinene	CAS: 80-56-8 EC: 201-291-9 M Factor (Acute) = 1 M Factor (Chronic) = 1	>0.01<4%	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
Linalool	CAS: 78-70-6 EC: 201-134-4	>0.01<9%	Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 Skin Sens. 1 – H317
The full text for all Hazard Statements is displayed in Section 16.			

4. First Aid Measures	
4.1 General	Immediately remove any clothing soiled by the product. Treat symptomatically.
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:	
Ingestion	Harmful if swallowed.
Skin Contact	Irritating to skin.
4.3 Indication of any immediate medical attention and special treatment need	
	No further relevant information available.

5. Firefighting Measures	
5.1 Extinguishing Media:	
Suitable extinguishing media:	Use alcohol-resistant foam, Carbon dioxide (CO2) or dry powder to extinguish.
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: None	
Hazardous combustion products:	In case of fire, the following can be released: Carbon monoxide (CO) and Carbon dioxide (CO2).
5.3 Advice for firefighters	Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.
Special Protective Equipment 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:	
Wear protective clothing and gloves. Keep unnecessary and unprotected personnel away from the spillage. Follow safety measures as mentioned in Sections 7 and 8. No smoking, sparks, flames, or other sources of ignition near spillage.	
6.1.1 For non-emergency personnel	
Protective equipment:	
Emergency procedures:	
6.1.2 For Emergency responders	
6.2 Environmental precautions	Do not discharge into drains or water courses or onto the ground. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil, or air).
6.3 Methods for cleaning up – 6.3.1 For containment:	Wipe up little amounts with absorbent material like cloth or pulp. Water and cleansing agent. Absorb with incombustible liquid binding material (sand, universal binders). Dispose of contaminated material as waste according to Section 13.
6.3.2 For cleaning up:	
6.3.3. Other information:	
6.4 Reference to other sections	

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. O Use personal protection equipment as mentioned under Section 8. Observe good personal hygiene, and do not eat, drink, or smoke whilst handling.	
Measures to prevent fire:	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Provide adequate ventilation
Measures to prevent aerosol and dust generation:	
Measures to protect the environment:	
Advice on general occupational hygiene:	Good personal hygiene procedures should be implemented.
7.2 Conditions for safe storage, including any incompatibilities	
Technical measures and storage conditions:	
Packaging Materials:	
Requirements for storage and vessels:	Keep away from oxidising materials, heat, and flames.
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	

(R)-p-mentha-1,8- diene (CAS: 5989-27-5)	DNEL	Workers – Inhalation; Long term systemic effects: 33.3 mg/m³ 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
7-methyl-3- methyleneocta1,6-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 Marine Water; Intermittent release: 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
	PNEC	STP; Short term: 10 mg/l Soil; Short term: 0.327 mg/kg Fresh Water; Intermittent release: 2 mg/l Fresh Water; Short term: 0.2 mg/l Marine Water; 0.02 mg/l Sediment (Freshwater); Short term: 2.22 mg/kg Sediment (Marinewater); Short term: 0.222 mg/kg
Decanal (CAS: 112-31-2)	DNEL	Workers – Inhalation; Long term systemic effects: 24.9 mg/m³ Workers – Dermal; Long term systemic effects: 7 mg/kg, bw/day General Population – Inhalation; Long term systemic effects: 6.1 mg/m³ General Population – Dermal; Long term systemic effects: 3.5 mg/kg, bw/day General Population – Oral; Long term systemic effects: 3.5 mg/kg, bw/day
	PNEC	Fresh Water; Short term: 1.17 mg/l Fresh Water; Intermittent release: 11.7 mg/l Marine Water; Short term: 0.117 mg/l STP; Short term: 3.16 mg/l Sediment (Freshwater); Short term: 0.097 mg/kg Sediment (Marinewater); Short term: 0.01 mg/kg Soil; Short term: 0.019 mg/kg
Octanal (CAS: 124-13-0)	DNEL	Workers – Inhalation; Long term systemic effects: 1.3 mg/m³ Workers – Dermal; Long term systemic effects: 0.37 mg/kg, bw/day General Population – Inhalation; Long term systemic effects: 0.32 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: 0.002 mg/l Marine Water; Short term: 0 mg/l STP; Short term: 3.16 mg/l Sediment (Freshwater); Short term: 0.071 mg/kg Sediment (Marinewater); Short term: 0.007 mg/kg Soil; Short term: 0.013 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 (Marinewater); Short term: 0.185 mg/kg Soil; Short term: 0.329 mg/kg
Citronellal (CAS: 106-23-0)	DNEL	Workers – Inhalation; Long term systemic effects: 9 mg/m³ Workers – Dermal; Long term systemic effects: 1.7 mg/kg, bw/day Workers – Dermal; Long term local effects: 140 mg/cm² 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 – Dermal; Long term local effects: 140 mg/cm² General Population – Oral; Long term systemic effects: 0.6 mg/kg, bw/day
	PNEC	Fresh Water; Short term: 0.009 mg/l Fresh Water; Intermittent release: 0.087 mg/l Marine Water; Short term: 0.001 mg/l STP; Short term: 4 mg/l Sediment (Freshwater); Short term: 0.159 mg/kg Sediment (Marinewater); Short term: 0.016 mg/kg Soil; Short term: 0.027 mg/kg
Citral (CAS: 5392-40-5)	DNEL	Workers – Dermal; Long term systemic effects: 1.7 mg/kg Workers – Inhalation; Long term systemic effects: 9 mg/m³ General Population – Oral; Long term systemic effects: 0.6 mg/kg General Population – Dermal; Long term systemic effects: 1 mg/kg, bw/day General Population – Inhalation; Long term systemic effects: 2.7 mg/m³
	PNEC	STP; 1.6 mg/l Soil; 0.0209 mg/kg Fresh Water; Intermittent release: 0.0678 mg/l Fresh Water; 0.00678 mg/l Marine Water; 0.000678 mg/l Sediment (Freshwater); 0.125 mg/kg Sediment (Marinewater); 0.0125 mg/kg
8.2 Exposure controls		
Engineering Measures	Ensure good ventilation of working area.	
8.2.2 Personal Protection equipment		
8.2.2.1 Eye / face protection	Wear approved chemical safety goggles where eye exposure is reasonably probable.	
8.2.2.2 Skin Protection		
Hand protection	Chemical resistant gloves (PVC).	
Other skin protection	Wear appropriate clothing to prevent any possibility of skin contact.	
Hygiene Measures	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash hands at the end of each work shift and before eating, smoking and using the toilet.	

8.2.2.3 Respiratory protection	Self-contained breathing apparatus.
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	Orange
Appearance	Liquid
Odour	Characteristic
Melting Point / freezing point	
Boiling point /Initial boiling point & boiling range	176-180°C
Flammability Limit – Lower (%)	Not determined
Lower and upper explosion limit	
Flash point ^{0}C	48°C
Auto- ignition temperature	
Decomposition temperature	
pH	
Kinematic Viscosity	
Solubility in Water	Insoluble in water.
Solubility in other Solvents	
Partition coefficient n-octanol/ water (log value)	
Vapour Pressure	Not determined.
Density and /or relative density	
Relative vapour density	0.8300 -0.8500 20
Vapour Density (AIR=1)	Not determined.
Particle characteristics	
Explosive Properties	
Oxidising Properties	
9.2 Other information	
Specific gravity d_{20}^{20}	
Optical rotation @ 20^{0}C	
Refractive index	1.4680 – 1.4900
Typical analysis of major components	

10. Stability and reactivity	
10.1 Reactivity	No information available.
10.2 Chemical Stability	Stable under normal temperature conditions.
10.3 Possibility of hazardous reactions:	Hazardous Polymerisation. Unknown.

10.4 Conditions to avoid:	Heat, sparks, and open flames.
10.5 Incompatible Materials:	Strong oxidising agents. Strong acids.
10.6 Hazardous Decomposition Products	No information available.

11. Toxicological information		
11.1 Information on hazard classes as defined in Regulation (EC) No 1272 /2008		
Information on Toxicological Effects	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.	
Acute toxicity:	Inhalation:	In high concentrations, vapours may irritate throat and respiratory system and cause coughing.
	Ingestion	May cause discomfort if swallowed.
	Skin Contact	May cause sensitisation by skin contact
	Eye Contact	Spray and vapour in the eyes may cause irritation and smarting
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	
Ecotoxicity	The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.
12.1 Toxicity	No information available.
12.2 Persistency & degradability	No information available.
12.3 Bio accumulative potential	No information available.
12.4 Mobility in soil	No information available.

12.5 Results of PBT and vPvB Assessment	No information available.
12.6 Endocrine disrupting properties	
12.7 Other adverse effects	No information available.

13. Disposal considerations	
13.1 Waste treatment methods	Dispose of in compliance with all local and national 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:	Dispose of contents / container in accordance with local/ regional/ national/ international regulations.

14. Transport information		
14.1 UN Number or ID number	ADR/RID/ADN	1993
	IMDG	1993
	ICAO	1993
14.2 UN proper Shipping name	FLAMMABLE LIQUID, N.O.S (Terpene Hydrocarbons)	
14.3 Transport hazard class(es)	ADR/RID/ADN	Class 3: Flammable Liquids.
	IMDG	3
	ICAO	3
Transport Labels		
14.4 Packing group	ADR / RID/ADN	III
	IMDG	III
	ICAO	III
14.5 Environmental hazards	Environmentally Hazardous Substance/Marine Pollutant 	
14.6 Special precautions for user	EMS	F-E, S-D
	Hazard Number (ADR)	30 Flammable liquid (flashpoint between 23°C and 60°C, inclusive) or flammable liquid or solid in the molten state with a flashpoint above 60°C, heated

		to a temperature equal to or above its flashpoint, or self-heating liquid.
	Tunnel Restriction Code	(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	
Statutory Instructions	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I. 2009 No. 716).
Approved Code of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG(108).
EU Legislation	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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
15.2 Chemical Safety Assessment	No information available.

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.