



1. Identification of the substances / mixture and of the company/undertaking.		
1.1 Product identifier: Geranium Oil Egypt		
Substance name:		
Biological Definition		
INCI Name		
Synonyms & Trade Names		
EC NO: 290-140-0	CAS NO: 8000-46-2	EINECS CAS Number: 90082-51-2
FEMA Number: 2508	Reach Registration No: -1-2120769423-50-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 Dam. 1 – H318
		Skin Sens. 1- H317	
	Environment	Aquatic Chronic. 3 – H412	
	Human Health	The liquid may be irritating to skin. May cause sensitisation or allergic reactions in sensitive individuals. May cause serious eye damage.	
Environmental	The product contains a substance which is harmful to aquatic organisms.		
2.2 Label Element Labelling according to Regulation (EC) No.1272/2008:			
 			
Signal Word. DANGER			
Contains: Citronellol, Geraniol, Linalool, d,l-Isomenthone, Menthone, Citral, (S)-P-mentha-1, 8-diene			
Hazard statements.			
H226	Flammable liquid and vapour.	H304	May be fatal if swallowed and enter airways.

H315	Causes skin irritation.	H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.	H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.	H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.	H412	Harmful to aquatic life with long lasting effects.

Precautionary statements.

P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTRE / doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P331	Do NOT induce vomiting.

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.
P273	Avoid release to the environment.
P302+P352	IF ON SKIN: Wash with plenty of 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.
P405	Store locked up.
P501	Dispose of contents/ container in accordance with national guidelines.

**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
Citronellol	CAS No: 106-22-9 EC No: 203-375-0	25-43%	Skin Irrit. 2- H315 Eye Irrit. 2 – H319 Skin Sens. 1 – H317
Geraniol	CAS No: 106-24-1 EC No. 203-377-1	5-20%	Skin Irrit. 2- H315 Eye Dam. 1 – H318 Skin Sens. 1 – H317
Linalool	CAS No: 78-70-6 EC No: 201-377-1	2-11%	Skin Irrit. 2- H315 Eye Irrit. 2 – H319

			Skin Sens. 1 – H317
d, l- Isomenthone	CAS No: 491-07-6 EC No: 207-727-4	4-10%	Skin Irrit. 2 - H315 Skin Sens. 1B – H317
Menthone	CAS No: 10458-14-7 EC No: 233-944-9	0.01-2.5%	Skin Irrit. 2 - H315 Skin Sens. 1 - H317
p-menth-1-en-8-ol	CAS No: 98-55-5 EC No: 202-680-6	0.01 -2%	Skin Irrit. 2 - H315 Eye Irrit. 2 – H319
Cis-Rose Oxide	CAS No: 3033-23-6 EC No: 221-217-9	1-5%	Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 Repr. 2- H361
Citral	CAS No: 5392-40-5 EC No: 226-394-6	0.5 -5%	Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 Skin Sens. 1 -H317
(S)-p-mentha-1, 8 - diene	CAS No: 5989-54-8 EC: 226-394-6 M Factor (Acute) = 1 M Factor (Chronic) = 1	<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
The fill text of all 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:	
	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:	Extinguish with foam, carbon dioxide, dry powder, or water fog.
Unsuitable extinguishing media:	For safety reasons do not use full water jet.
5.2 Special hazards arising from the substances or mixture:	
Hazardous combustion products:	Closed containers may build up pressure at elevated temperatures.
5.3 Advice for firefighters	Avoid breathing fire gases or vapours.

Special Protective Equipment for Fire- fighters.	Use special protective clothing.
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6 Accidental release measures	
6.1 Personal precautions, protective equipment, and emergency procedures:	Avoid contact with skin and eyes. Avoid inhalation of vapours. For personal protection, see Section 8. Provide adequate ventilation.
6.1.1 For non-emergency personnel	
Protective equipment:	
Emergency procedures:	
6.1.2 For Emergency responders	
6.2 Environmental precautions	Avoid discharge into drains or watercourses or onto the ground.
6.3 Methods for cleaning up – 6.3.1 For containment:	Cover with inert, inorganic, non-combustible material (e.g., dry lime, sand, soda ash). Place in covered containers and dispose of in accordance with local authority guidelines. Use non-sparking tools. Ventilate area and wash spill site after pickup is complete,
6.3.2 For cleaning up:	
6.3.3. Other information:	
6.4 Reference to other sections	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. Do not eat, drink, or smoke when using this product. Avoid contact with skin and eyes. Avoid inhalation of vapours. For personal protection, see Section 8.
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:	
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:	Keep air contact to a minimum. Store in tightly – closed, original container in a dry, cool, and well-ventilated place. Keep away from heat, sparks, and open flame.
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		
Citronellol CAS: 106-22-9	DNEL	Workers- Inhalation; Long-term systemic effects: 161.6 mg/m ³ Workers – Inhalation; Long-term local effects: 10 mg/m ³ Workers – Inhalation; Short-term local effects: 10mg / m ³ Workers – Dermal; Long-term systemic effects; 327.4 mg/kg, bw/day Workers – Dermal; Short-term local effects; 2.950 mg/cm ² General Population – Inhalation; Long-term systemic effects: 47.8 mg/m ³ General Population – Inhalation; Long-term local effects: 10 mg/m ³ General Population – Inhalation; Short term local effects: 10mg/m ³

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SAFETY DATA SHEET

According to Regulation (EC) No.1272/2008

		General Population – Dermal; Long term systemic effects: 196.4 mg/kg, bw/day General Population – Dermal; Short term local effects: 2.950 mg/cm ² General Population – Oral; long term systemic effects: 13.8 mg/kg, bw / day
	PNEC	Fresh water; Short term; 0.002 mg/l Fresh water, intermittent release; Short term: 0.024 mg/l Marine water; Short term: 0 mg/l STP; Short term: 580 mg/l Sediment (Freshwater); Short term: 0.026 mg/kg Sediment (Marine water); Short term; 0.003 mg/kg Soil; Short term: 0.004 mg/kg
Geraniol CAS: 106-24-1	DNEL	Workers – Inhalation; Long term systemic effects: 161.6 mg/m ³ Workers – Dermal; Long term systemic effects; 12.5 mg/kg, bw/day General Population – Inhalation; Long term systemic effects; 47.8 mg/m ³ 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 (Fresh water); Short term; 0.115 mg/kg Sediment (Marine water); Short term; 0.011 mg/kg Soil; Short term; 0.017 mg/kg
Linalool CAS: 78-70-6	DNEL	Workers – Inhalation; Long term systemic effects: 2.8 mg/m ³ Workers – Inhalation; Short term systemic effects; 16.5 mg/ m ³ Workers – Dermal; Long term systemic effects: 2.5 mg/kg Workers – Dermal; Short term systemic effects; 5 mg /kg General Population; Inhalation; Long term systemic effects: 0.7 mg/m ³ General Population; Inhalation; Short term systemic effect: 4.1 mg/m ³ General Population; Dermal; Long term systemic effect; 1.25 mg/kg General Population; Dermal; Short term systemic effects; 2.5 mg/kg General Population; Oral; Long term systemic effects; 0.2mg/kg General Population; Oral; Short term systemic effects; 1.5mg/kg
	PNEC	Fresh water; Short-term: 0.2 mg/l

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		Fresh water, Intermittent release; Short-term: 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/m ³ Workers – Dermal; Long-term systemic effects: 1.7 mg/kg General Population – Inhalation; Long-term systemic effects: 2.7 mg/m ³ General Population – Dermal; Long-term systemic effects: 1 mg/kg General Population – Oral; Long-term systemic effects: 0.6 mg/kg
	PNEC	Fresh water: 0.00678 mg/l Fresh water, Intermittent release: 0.0678 mg/l Marine water: 0.000678 mg/l STP: 1.6 mg/l Sediment (Freshwater): 0.125 mg/kg Sediment (Marinewater): 0.0125 mg/kg00+ Soil: 0.0209 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
8.2 Exposure controls		
Engineering Measures		
Ensure good ventilation of working area. Provide an eye wash station.		
8.2.2 Personal Protection equipment		
General protective and hygiene 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 skin and eyes.		
8.2.2.1 Eye / face protection	Wear protective gloves/ protective clothing / eye protection.	
8.2.2.2 Skin Protection	Wear apron or protective clothing in case of contact.	
Hand protection	Chemical resistant gloves (PVC)	
Other skin protection	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	Yellow to green, yellow.	

Appearance	Liquid
Odour	Sweet, Rosey, minty
Melting Point / freezing point	
Boiling point /Initial boiling point & boiling range	
Flammability	
Lower and upper explosion limit	
Flash point °C	>86°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 @ 20°C	0.860 to 0.905
Particle characteristics	
Explosive Properties	
Oxidising Properties	
9.2 Other information	
Specific gravity d ₂₀ ²⁰	
Optical rotation @ 20°C	-16 to -7
Refractive index @ 20°C	1.461 to 1.475
Typical analysis of major components	

10. Stability and reactivity

10.1 Reactivity	No information available.
10.2 Chemical Stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	None known.
10.4 Conditions to avoid:	Keep away from heat, sparks, and open flame.
10.5 Incompatible Materials:	Strong acids. Strong alkalis. Strong oxidising agents. Strong reducing agents.
10.6 Hazardous Decomposition Products	During combustion may form Carbon monoxide and unidentified organic compounds.

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	Harmful to aquatic life with long lasting effects.
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 data available.
12.6 Endocrine disrupting properties	
12.7 Other adverse effects	No information 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:	

14. Transport information	
14.1 UN Number or ID number	Not applicable.

14.2 UN proper Shipping name	Not applicable.
14.3 Transport hazard class(es) ADR, IMDG, ICAO	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 Maritime transport in bulk according to IMO instruments	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). 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		
Inventories	EU- EINECS/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 - PICC	Complies
	New Zealand – Nzioc	Complies
	Taiwan OTSCI)	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" (IATA)

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.