


1. Identification of the substances / mixture and of the company/undertaking.		
1.1 Product identifier: Ginger Oil Chinese		
Substance name: Zingiber Cassumunar Root Oil		
Biological Definition		
INCI Name		
Synonyms & Trade Names		
EC NO: 283-634-2	CAS NO: 8007-08-7	EINECS CAS Number: 84696-15-1
FEMA Number: 2522	Reach Registration No:	
1.2 Relevant identified uses of the substance or mixture and uses advised against		
Identified uses:		
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. <u>Or call NHS 111 or NHS 999</u>	

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. – H319	
		Skin Sens. 1 – H317	Asp. Tox. 1 – H304	
	Environment	Aquatic Chronic. 2 – H411		
	Human Health	May be fatal if swallowed and enters airways. The product is strong irritating to eyes and skin.		
Environment	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. DANGER				
Contains	Beta Bisabolene / Alpha Pinene / Geranial / Neral / 1, 8 Cineole / Dipentene / Beta Pinene / Geraniol / A Terpinolene			

Hazard statements.			
H226	Flammable liquid and vapour	H228	Flammable solid
H302	Harmful if swallowed	H304	May be fatal if swallowed and enters the 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.		
Precautionary statements.			
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.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present, if present and easy to do. Continue rinsing.		
P331	Do NOT induce vomiting.		
P262	Do not get in eyes, in skin, or on clothing.		
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.		
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 before reuse.		
P391	Collect spillage.		
P405	Store Locked up.		
P501	Dispose of contents / containers to 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
Camphere	CAS No: 79-92-5 EC No: 201 -234-8 M factor (Chronic) = 1	5-10%	Flam Sol. 1 – H228 Eye Irrit. 2 – H319 Aquatic Chronic. 1 – H410
Trans Alpha Farnesene	CAS No: 502 -61-4 EC No: 207-948-6	5-10%	Not classified.
Beta Bisbolene	CAS No: 495-61=4	5-10%	Skin Irrit. 2 – H315 Skin Sens. 1 - H317 Asp. Tox. 4 – H304
Alpha Pinene	CAS No: 80-56-8 EC No: 201-291-9 M factor (Acute) = 1 M factor (Chronic) = 1	1-5%	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
Geranial	CAS No: 141-27-5 EC No: 205-476-5	<1%	Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 Skin Sens. 1 – H317
Neral	CAS No: 106-26-3 EC No: 203-379-2	<1%	Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 Skin Sens. 1 – H317
1, 8 Cineole	CAS No: 470-82-6 EC No: 207-431-5	1-10%	Flam. Liq. 3 – H226 Skin Sens. 1 – H317
Dipentene	CAS No: 138-86-3 EC No: 205-341-0 M factor (Acute) = 1 M factor (Chronic) = 1	0.01 -5%	Flam. Liq. 3 – H226 Skin Irrit. 2 – H315 Skin Sens. 1 – H317 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410
Geraniol	CAS No: 106-24-1 EC No: 203-377-1	<1%	Skin Irrit. 2 – H315 Eye Dam. 1 – H318 Skin Sens. 1 – H317
Beta Pinene	CAS No: 127-91-3 EC No: 242-060-2 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
A Terpinolene	CAS No: 586-62-9 EC No: 209-578-0 M factor (Acute) = 1 M factor (Chronic) = 1	< 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 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:	Use as appropriate: Carbon dioxide (CO ₂), dry chemical or foam.
Unsuitable extinguishing media:	Do not use water, if avoidable.
5.2 Special hazards arising from the substances or mixture:	In case of fire, the following can be released: Carbon monoxide (CO), Carbon dioxide (CO ₂), smoke, soot.
Hazardous combustion products:	
5.3 Advice for firefighters	Avoid breathing fires gases or vapours. Containers close to fire should be removed or cooled with water.
Special Protective Equipment for Fire- fighters	Use protective equipment appropriate for surrounding materials.
6 Accidental release measures	
6.1 Personal precautions, protective equipment, and emergency procedures:	Ensure adequate ventilation of the working area, evacuate personnel to safe area, wear suitable protective equipment. No smoking, sparks, flames, or other sources of ignition near spillage. Avoid contact with skin and eyes. Avoid inhalation of vapours.
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 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.
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	
<p>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.</p>	
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:	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).	No further relevant information available.
Recommendations:	
Industrial sector specific solutions:	

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8. Exposure controls/Personal protection:

8.1 Control parameters

Camphene CAS No: 79-92-5	DNEL	<p>Workers – Inhalation; Long-term systemic effects: 110.19 mg/m³</p> <p>Workers – Inhalation; Short-term systemic effects: 110.19 mg/m³</p> <p>Workers – Dermal; Long-term systemic effects: 0.21 mg/kg, bw/day</p> <p>Workers – Dermal; Short-term systemic effects: 1.25 mg/kg, bw/day</p> <p>General population – Inhalation; Long-term systemic effects: 54.3 mg/m³</p> <p>General population – Inhalation; Short-term systemic effects: 54.3 mg/m³</p> <p>General population – Dermal; Long-term systemic effects: 0.1 mg/kg, bw/day</p> <p>General population – Dermal; Short-term systemic effects: 0.625 mg/kg, bw/day</p> <p>General population – Oral; Long-term systemic effects: 0.1 mg/kg, bw/day</p> <p>General population – Oral; Short-term systemic effects: 0.625 mg/kg, bw/day</p>
	PNEC	<p>Fresh water; Short-term 0.001 mg/l Intermittent release, Fresh water; 0.001 mg/l</p> <p>Marine water; Short-term 0 mg/l STP; Short-term 10 mg/l</p> <p>Sediment (Freshwater); Short-term 0.026 mg/kg</p> <p>Sediment (Marinewater); Short-term 0.003 mg/kg</p> <p>Soil; Short-term 0.021 mg/kg</p>
Alpha Pinene CAS: 80-56-8	DNEL	<p>Workers – Inhalation; Long-term systemic effects: 3.8 mg/m³</p> <p>Workers – Dermal; Long-term systemic effects: 0.54 mg/kg, bw/day</p> <p>General population – Inhalation; Long-term systemic effects: 0.67 mg/m³</p> <p>General population – Dermal; Long-term systemic effects: 0.19 mg/kg, bw/day</p> <p>General population – Oral; Long-term systemic effects: 0.19 mg/kg, bw/day</p>
	PNEC	<p>Fresh water; Short-term 0.606 mg/l Intermittent release, Fresh water; 3.03 mg/l</p> <p>Marine water; Short-term 0.061 mg/l Intermittent release, Marine water; 0.303 mg/l STP; Short-term 0.2 mg/l</p> <p>Sediment (Freshwater); Short-term 157 mg/kg</p> <p>Sediment (Marinewater); Short-term 15.7 mg/kg</p> <p>Soil; Short-term 31.7 mg/kg</p>
1, 8 Cineole CAS: 470-82-6	DNEL	<p>Workers – Inhalation; Long-term systemic effects: 7.05 mg/m³</p> <p>Workers – Dermal; Long-term systemic effects: 2 mg/kg, bw/day</p>

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According to Regulation (EC) No.1272/2008

		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 5.7 mg/l Intermittent release, Fresh water; 0.57 mg/l Marine water; Short-term 5.7 mg/l STP; Short-term 10 mg/l Sediment (Freshwater); Short-term 1.425 mg/kg Sediment (Marinewater); Short-term 0.142 mg/kg Soil; Short-term 0.25 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 Intermittent release, Fresh water; 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 (Marinewater); Short-term 0.034 mg/kg Soil; Short-term 0.067 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 Intermittent release, Fresh water; 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
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

	<p>General population – Inhalation; Long-term systemic effects: 0.9 mg/m³</p> <p>General population – Dermal; Long-term systemic effects: 0.26 mg/kg, bw/day</p> <p>General population – Oral; Long-term systemic effects: 0.26 mg/kg, bw/day</p>
	<p>PNEC</p> <p>Fresh water; Short-term 0.634 mg/l Intermittent release, Fresh water; Short-term 0.634 mg/l</p> <p>Marine water; Short-term 0.063 mg/l STP; Short-term 0.2 mg/l</p> <p>Sediment (Freshwater); Short-term 14.7 mg/kg</p> <p>Sediment (Marinewater); Short-term 14.7 mg/kg</p> <p>Soil; Short-term 29.1 mg/kg</p>
8.2 Exposure controls	
Engineering Measures	Ensure good ventilation of working area. Provide eyewash station.
8.2.2 Personal Protection equipment:	Wear protective gloves / protective clothing / eye protection. 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.
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	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	Avoid discharging into drains.
9. Physical and chemical properties- C of A	
9.1 Information on basic physical and chemical properties	
Colour	Pale yellow to yellow orange
Appearance	Liquid
Odour	Characteristic of Ginger.
Melting Point / freezing point	
Boiling point /Initial boiling point & boiling range	
Flammability	
Lower and upper explosion limit	
Flash point °C	66°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	0.870 to 0.885
Particle characteristics	
Explosive Properties	
Oxidising Properties	
9.2 Other information	
Specific gravity d_{20}^{20}	
Optical rotation @ 20°C	-26 to -58
Refractive index @ 20°C	1.480 to 1.494
Typical analysis of major components	

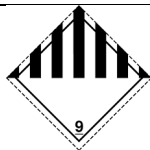
10. Stability and reactivity	
10.1 Reactivity	No hazardous reactions if stored and handled as prescribed/ indicated.
10.2 Chemical Stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	None known.
10.4 Conditions to avoid:	Keep away from heat, sparks, and open flame.
10.5 Incompatible Materials:	Strong acids, strong alkalis, or strong oxidising agents.
10.6 Hazardous Decomposition Products	Prolonged or excessive heat and /or exposure to air may cause decomposition or oxidisation of the material.


11. Toxicological information	
11.1 Information on hazard classes as defined in Regulation (EC) No 1272 /2008	
Information on Toxicological Effects	
Acute toxicity:	
Skin corrosion /irritation:	Irritating to skin.
Seriously eye damage/irritation:	Irritation of eyes is assumed.
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:	May be fatal if swallowed and enters airways.

12. Ecological information	
12.1 Toxicity	Ecotoxicity: This product contains substances which are toxic to aquatic organisms, and which may cause long-term adverse effects in the aquatic environment.
12.2 Persistency & degradability	
12.3 Bio accumulative potential	
12.4 Mobility in soil	
12.5 Results of PBT and vPvB Assessment	
12.6 Endocrine disrupting properties	
12.7 Other adverse effects	

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:	

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, AND	9
ADR/RID Classification Code	M6
Transport Labels	
14.4 Packing group ADR/RID, IMDG, ICAO, AND	III

14.5 Environmental hazards	Environmentally hazardous substances/ marine pollutant. 
14.6 Special precautions for user Emergency Medical Services (EmS) ADR Transport Category Emergency Action Code Hazard Identification Number (ADR/RID) Tunnel Restriction Code	F-A, S-F 3 <ul style="list-style-type: none"> • 3Z 90 (E)
14.7 Transport in Bulk According to Annex II of MARPOL and the IBC Code	No Data available

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 – EINCES/ 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 – TCSO	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.	