

1. Identification of the substances / mixture and of the company/undertaking.			
1.1 Product identifier: Cinnamon Leaf Oil			
Substance name: Cinnamomum Zeylanicum Leaf Oil			
EC NO: 283-479-0	CAS NO: 8015-91-6	EINECS CAS Number: 84649-98-9	
FEMA Number: 2291, 2292	Reach Registration No: 01-2119487278-23-XXXX		
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Identified uses: Industrial, only for professionals			
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</u> 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	Eye Irrit. 2- H319	Skin Sens. 1 – H317
		Muta. 2 – H341	Carc. 1B – H350
			May cause serious eye damage. The liquid may be irritating to skin.
Environment	Aquatic Chronic. 3 – H412		
	The product contains a substance which is very 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			
Hazard statements.			
H226	Flammable liquid and vapour	H302	Harmful if swallowed.

H304	May be fatal if swallowed and enters airways.	H312	Harmful in contact with skin.
H315	Causes skin irritation.	H317	May Cause an allergic skin reaction.
H319	Causes serious eye irritation.	H341	Suspected of causing genetic defects.
H350	May cause cancer.	H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.	H412	Harmful to aquatic life with long lasting effects

Precautionary statements

P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
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 minute. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice / attention.
P501	Dispose of contents / container in accordance with local /regional/national/international regulations.

Supplementary Precautionary Statements:

P201	Obtain special instructions before use.
P261	Avoid breathing vapour / spray.
P264	Wash contaminated skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P308+P313	If exposed or concerned: Get medical advice / attention.
P321	Specific treatment (see medical advice on this label).
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.

2.3 Other hazards – Results of PBT and vPvB

3. 1 Composition / information on ingredients:

Substance name	Index number under CLP Annex VI	Weight % content (or range)	CL, M-Factor, ATE
Eugenol	CAS: 97-53-0 EC: 202-589-1	70 -85%	Eye Irrit. 2 – H319 Skin Sens. 1 – H317
Beta Caryophyllene	CAS: 87-44-5 EC: 201-746-1	1.5 -7%	Skin Sens. 1B – H317 Asp. Tox. 1 – H304 Aquatic Acute. 1 – H400 Aquatic Chronic. 1 – H410
Eugenyl Acetate	CAS: 93-28-7 EC: 202-235-6	0.5 – 4.25%	Acute Tox. 4 – H302
Benzyl Benzoate	CAS: 120-51-4 EC: 204- 402-9	2-4%	Acute Tox. 4 – H302 Aquatic Acute. 1 – H400

	M Factor (Acute) = 1		Aquatic Chronic. 2 – H411
Linalool	CAS: 78-70-6 EC: 201-134-4	1-4%	Skin Irrit. 2 - H315 Eye Irrit. 2 – H319 Skin Sens. 1 – H317
Cinnamyl Acetate	CAS: 103-54-8 EC: 203-121-9	0.75 -3%	Eye Irrit. 2 – H319
(R) – (-) Alpha-phellandrene	CAS: 4221-98-1 EC: 224-167-6	0.75-2%	Flam. Liq. 2 -H226 Asp. Tox. 1 – H304
Cinnamic Aldehyde	CAS: 105-55-2 EC: 203-213-9	0.5-3%	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens> 1 – H317
Alpha Pinene	CAS: 80-56-8 EC: 201-291-9 M Factor (Acute) = 1 M Factor (Chronic) = 1	0.5 -2.5%	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
Safrole	CAS: 94-59-7 EC: 202-345-4	0.5-2%	Acute Tox. 4 – H302 Muta. 2 – H341 Carc. 1B – H350
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.
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:

Inhalation	May cause coughing and difficulties in breathing.
Ingestion	Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system.
Skin Contact	Toxic in contact with skin.
Eye Contact	May cause eye irritation.

4.3 Indication of any immediate medical attention and special treatment need

	No further relevant information available.
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5. Firefighting Measures

5.1 Extinguishing Media:

Suitable extinguishing media:	Use as appropriate: Carbon dioxide (CO ₂), dry chemical or foam.
Unsuitable extinguishing media:	
5.2 Special hazards arising from the substances or mixture	
Hazardous combustion products:	Burning produces irritating, toxic and obnoxious fumes.
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

Ensure adequate ventilation of the working area, evacuate personnel to safe area, wear suitable protective equipment.

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 into the ground.

6.3 Methods for cleaning up – 6.3.1 For containment:

Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled container for disposal. Clean spillage area thoroughly with plenty of water.

6.3.2 For cleaning up:

6.3.3. Other information:

6.4 Reference to other sections

For personal protection, see Section 8.

7. Handling and storage

7.1 Precautions for safe handling

Protective measures: Ensure good ventilation/ exhaustion at the workplace.

Prevent formation of aerosols.

Avoid contact with skin and eyes.

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:	
Storage Class: Further information on storage containers:	Keep in a cool, well-ventilated place. Keep containers tightly closed.
7.3 Specific end use(s).	No further relevant information available.
Recommendations:	
Industrial sector specific solutions:	

8. Exposure controls/Personal protection

8.1 Control parameters		
Eugenol CAS: 97-53-0	DNEL	Workers - Inhalation; Long term systemic effects: 21.2 mg/m ³ Workers – Dermal; Long term systemic effects: 6 mg/kg. bw/day General population – Inhalation; Long term systemic effects: 5.22mg / m ³ General population – Dermal; Long term systemic effects: 3mg/kg, bw/day General population – Oral: Long term systemic effects: 3mg/kg. bw /day
	PNEC	Fresh water; Short-term: 1.13 mg/l Fresh water; Intermittent release: 11.3 mg/l Marine water; Short term: 0.113 mg/l Sediment (Freshwater); Short term: 0.081 mg/kg Sediment (Marine water); Short term: 0.008 mg/kg Soil: Short term: 0.015 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/m ³

Penny Price Aromatherapy/ Aroma Formulations

SAFETY DATA SHEET

According to Regulation (EC) No.1272/2008

		Workers – Dermal; Long term systemic effects: 2.5 mh/kg Workers – Inhalation; Long term systemic effects: 2.8 mg/m ³ 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 /m ³ 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 /m ³
	PNEC	STP; Short term: 10 mg/l Soil; Short term: 0.327 mg/kg Intermittent release; Short term: 2 mg/l Fresh water; Short term: 0.2 mg/l Marine water; Short term: 0.02 mg/l Sediment (Freshwater); Short term: 2.22 mg/kg Sediment (Marine water): Short term: 0.222 mg/kg
Cinnamic Aldehyde CAS: 104-55-2	DNEL	Workers – Inhalation; Long term systemic effects: 13.6 mg/m ³ Workers – Dermal; Long term systemic effects: 3.85 mg/kg, bw/day General population – Inhalation; Long term systemic effects: 2.4 mg/m ³ General population – Dermal; Long term systemic effects: 1.37 mg/kg, bw/day General population – Oral; Long term systemic effects: 1.37 mg/kg, bw/day
	PNEC	Fresh water; Short term; 0.021 mg/l Fresh water; Intermittent release; Short term: 0.21 mg/l Marine water; Short term: 0.002 mg/l STP; Short term: 7.1 mg/l Sediment (Freshwater); Short term: 0.021 mg/kg Sediment (Marine water); Short term: 0.002 mg/kg Soil; Short term: 0.004 mg/kg
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: 0.19 mg/kg, bw/day General population – Oral; Long term systemic effects: 0.19mg /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
8.2 Exposure controls		

8.2.2 Personal Protection equipment; Wear protective gloves/ protective clothing/ eye protection / face protection. 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	Wear protective clothing.
8.2.2.3 Respiratory protection	Self-contained breathing apparatus must be used in handling.
Ventilation	Provide adequate 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	Reddish brown to dark brown.
Appearance	Liquid
Odour	Characteristic.
Melting Point / freezing point	This is a clear mobile liquid at 20°C and a clear mobile liquid after 48h at 20°C.
Boiling point /Initial boiling point & boiling range	245.7°C @ 99.1 kPa
Flammability	
Lower and upper explosion limit	
Flash point °C	90°C
Auto- ignition temperature	380°C
Decomposition	
pH	
Kinematic Viscosity	
Solubility	
Partition coefficient n-octanol/ water (log value)	
Vapour Pressure @ 25°C	19.51 Pa
Density and /or relative density	
Relative vapour density @20°C	1.030 to 1.059
Particle characteristics	
9.2 Other information	
Specific gravity d_{20}^{20}	
Optical rotation @ 20°C	
Refractive index @ 20°C	1.5290 to 1.5400

Typical analysis of major components	
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10. Stability and reactivity	
10.1 Reactivity	
10.2 Chemical Stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	
10.4 Conditions to avoid:	
10.5 Incompatible Materials:	Strong acids, alkalis, oxidising agents.
10.6 Hazardous Decomposition Products	

11. Toxicological information	
11.1 Information on hazard classes as defined in Regulation (EC) No 1272 /2008	
Acute toxicity:	Oral: ATE Oral (mg/kg) – 7812.5 Dermal: ATE Dermal (mg/kg) – 86614.17
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	
12.2 Persistency and degradability	Expected to be readily biodegradable.
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 contents/ container 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 - Not regulated	
14.1 UN Number or ID number	
14.2 UN proper Shipping name	
14.3 Transport hazard class(es)	
14.4 Packing group	
14.5 Environmental hazards	
14.6 Special precautions for user	
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. 1907/2006 of the European Parliament and of the Council of 18 th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemical (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 marchandises 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” (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the ‘International Civil Aviation Organisation’ (ICAO)

ADR: Accord europeen 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. Tox: Aspiration Toxic

Eye Irrit: Eye Irritation

Skin Irrit: Skin Irritation

Skin Sens: Skin Sensation

Muta: Mutagenic

Carc: Carcinogenic

(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.	