



The English Aromatherapy Company				
<u>1. Identification of the substances / mixture and of the company/undertaking.</u>				
1.1 Product identifier: BERGAMO	1.1 Product identifier: BERGAMOT OIL ITALIAN			
Substance name: CITRUS BERC	GAMIA PEEL OIL EXPRESSED			
EC NO: 89957-91-5	CAS NO: 8007-75-8	FEME NUMBER: 2153		
Index No:	Reach Registration No: 01-21201	17613-65-XXXX		
FDA Number: 21 CFR 182.20	CoE Number: 137			
1.2 Relevant identified uses of the	substance or mixture and uses advi	sed against		
Identified uses: Odour agent/flavo	uring agent - ingredient for industri	al manufacturing.		
Uses advised against: Not for perso	onal use in this form or concentration	1		
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	00 44 (0) 1455 251020 opening hours Mon – Thurs 9am – 5pm, Fri 9am –			
Number	2pm. <u>Or call NHS 111 or NHS 999</u>			

2. Hazards Identification			
2.1 Classification of the substance	<u>or mixture</u>		
Classified according to	Physical and	Flam. Liq. 3 + H226	
Regulation (EC) 1272/2008 (CLP)	Chemical		
as amended	Hazards		
	Human	Asp.Tox.1 = H304	Skin Irrit. 2 =H315
	Health	Skin Sens. 1 = H317	Eye Irrit. 2 = H319
	Environment	Aquatic Chronic 3 = H412	

2.2 Label Element Labelling according to Regulation (EC) No.1272/2008:



Signal Word. DANGER

Hazard state	ments.		
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	H412	Harmful to aquatic life with long lasting effects
Precautionar	y Phrases:		
P210	Keep away from heat, sparks, open flames, and hot surfaces – No smoking	P280	Wear protective gloves / protective clothing / eye protection / face protection.
P331	Do NOT induce vomiting.	P301+P310	IF SWALLOWED: Immediately call a POISON CENTRE / doctor.





tions The English Aromatherapy Company		
IF IN SKIN: Wash with plenty of water.	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue raising.
Avoid release to the environment.		
Results of PBT and vPvB		
Because of potential presence of various furocoumarins the product can have phototoxic effects (skin).		
	IF IN SKIN: Wash with plenty of water. Avoid release to the environment. Results of PBT and vPvB Because of potential presence	IF IN SKIN: Wash with plenty of water. P305+P351+P338 Avoid release to the environment. P305+P351+P338 Results of PBT and vPvB P305+P351+P338 Because of potential presence of various furocourt P305+P351+P338

		mation on	ingredients:				
3.1	Substance					BERGAMOT OIL ITALIAN	
			Botanical Origin			ergamia, RISSO et POITEAU	
			Chemical Identification &	Grade		atural Complex Substance	
			EINECS CAS Number		89957-9		
			CAS Number		8007-75		
			EC Number		289-612	-9	
3.2 Contai		1					
Substance	e name	Index nu	nber under CLP Annex VI	-	ght % ent (or e)	CL, M-Factor, ATE	
d-limonen	e	EC No; 22		20-5		Aspiration Hazard 1, Environmental Chronic 1, Flammable Liquid 3, Skin Irritation 2, Skin Sensation 1B,	
Linalool			01- 134-4	3-45		Acute Toxicity Oral 5, Eye Damage / Irritation 2A, Flammable Liquid 4, Skin Irritation 2,	
Linalyl Ace	etate		115-95-7)4- 116-4	15-4	10%	Eye Damage / Irritation 2A, Flammable Liquid 4, Skin Irritation 2	
Beta Piner	ne	CAS No: 2 EC No: 20	127-91-3)4 -872-5	3-12	%	Aspiration Hazard 1, Flammable Liquid 3, Skin Irritation 2, Skin Sensation 1B	
Y-terpiner	ne	CAS No: 9 EC No: 20		2-12	%	Aspiration Hazard 1, Flammable Liquid 3, Skin Irritation 3,	
•		CAS No: 8 EC No: 20	80-56-8 01-291-9		4%	Aspiration Hazard 1, Flammable Liquid 3, Skin Irritation 2, Skin Sensation 1B Acute Toxicity Oral 5	
Beta Myrc	cene	CAS No: 1 EC No: 20	123-35-3)4-622- 5	0.5 -2	2.5 %	Aspiration Hazard 1, Eye Damage / Irritation 2A, Flammable Liquid 3, Skin Irritation 2	





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4. Fir	st Aid Measures			
4.1 General		Immediately remove any clothing soiled by the product.		
Inhalation		Remove person to fresh air and keep comfortable for breathing. Get medical advice / attention if you feel unwell.		
Eye c	ontact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice / attention.		
Skind	Skin contact Take off all contaminated clothing. Rinse skin with water/shower irritation persists seek medical advice / attention		•	
Inges	tion	Rinse mouth out with water. Do POISON CENTER or GP. Do no	NOT induce vomiting. Immediately call It give milk or fatty oils.	
4.2	Most important symptoms and effects, both acute and delayed:	Symptoms	Inhalation: Can cause slight headache Contact: Can cause eye irritation. Can cause slight skin rash.	
		Acute and Delayed Effects	No post-disorder effects are reported.	
4.3	Indication of any immediate medical attention and	Immediate Medical Assistance Immediate / Special	See Section 4.1 See Section 4.1	
special treatment need		Treatment First Aid Specific Means	Eye wash capsules should be available in the workplace.	
C C :				
	<u>efighting Measures</u> ‹tinguishing Media:			
	ble extinguishing media:	Small Fire	Use Carbon dioxide (CO2), foam, dry powder.	
		Large Fire	Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto-ignition or explosion.	
	table extinguishing media:	Pressurised water jet.		
-	pecial hazards arising from the s			
Haza	rdous combustion products:	Vapours may form explosive mixture with air. In case of fire the following can be released: Carbon Monoxide (CO), Carbon dioxide (CO2), smoke, soot.		
Advice for firefightersStandard procedure for chemical fires. Spray extinguishing medi flames. Use adequate protections for respiratory apparatus, and bodysuits.				

6 Accidental release measures	
6.1 Personal precautions, protective equipment, and emergency procedures	
6.1.1 For non-emergency personnel	
Protective equipment:	In case of unintentional important release of the product in enclosed space use respiratory protection (Gas filter A, Colour Code brown: consider the maximum duration of wear) must be worn. Using insulating device for respiratory protection with an independent air supply in circumstances which are unclear. Use adequate protections solvent resistant: security shoes, bodysuit, gloves, and protection goggles, solvent-resistant (see Section 8).





Emergency procedures:	Remove ignition source and ensure adequate ventilation in working areas following accidental releases.
6.1.2 For Emergency responders	As per non- emergency personnel.
6.2 Environmental precautions	Dispose of contents and containers in accordance with local, regional, national, international regulations. Keep away from drains. Keep away from surface and ground water.
6.3 Methods for cleaning up – 6.3.1	
For containment:	
6.3.2 For cleaning up:	
6.3.3. Other information:	
6.4 Reference to other sections	Section 4, 8 and 13.

7. Handling and stor	age
7.1 Precautions for s	
Protective measures	
Measures to prevent fire:	Avoid placing or handling near any sources of ignition. Avoid exposing to high temperature during processing.
Measures to prevent aerosol and dust generation:	Maintain adequate local and general ventilation where product is handled.
Measures to protect the environment:	During handling keep original container closed. Avoid contact with skin and eyes.
Advice on general occupational hygiene:	Do not ingest or apply to the skin as such. No smoking. Remove contaminated clothing. Good personal hygiene routines should be followed. If at risk of contamination, foods, drinks, and other articles of consumption must eb stored or consumed at the workplace.
7.2 Conditions for sa	fe storage, including any incompatibilities
Technical measures and storage conditions:	
Packaging Materials:	
Requirements for storage and vessels:	To be stored in stainless steel drums, preferably under inert atmosphere (nitrogen) with minimum headspace, protected from day light. Take note: the container used during transportation must be considered only as a temporary container and it must not be considered in any case adequate for medium or long-term warehousing. Stored in a dry, aerated place, away from heat source and ignition source from 5°C to 20°C.
Storage Class: Further information on storage containers:	



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7.3 Specific end use(s).	Use as odour agent / flavouring agent. The information of this section is not related to the use of the product in combination with ant other material or any other process altering its characteristics.
Recommendations:	
Industrial sector specific solutions:	

8. Exposure controls/Personal protection

Where appropriate, use closed system to transfer and/or process this material. If appropriate, isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative ait pressure relative to the rest of the plant.

relative to the rest of the plant.	
8.1 Control parameters	Refer to the Exposure scenario document in Annex I.
8.2 Exposure controls	Refer to the Exposure scenario document in Annex I.
8.2.2 Personal Protection equipme	ent
8.2.2.1 Eye / face protection	Protective goggles with built -in frame tested to EN166 (should be checked
	regularly).
8.2.2.2 Skin Protection	
Hand protection	Suitable gloves tested to EN374 (should be checked regularly). Always use with clean, dry hands.
Other skin protection	Protective work clothing solvent resistant (should be checked regular).
8.2.2.3 Respiratory protection	Not necessary in adequate local with general ventilation. Avoid breathing vapours.
Ventilation	
8.2.2.4 Thermal hazards	None
8.2.3 Environmental exposure	The usual precautions for safe handling have to be observed.
controls	
9. Physical and chemical properties-	
9.1 Information on basic physical and	d chemical properties
Colour	
Appearance	Yellow-greenish liquid
Odour	Citrusy
Melting Point / freezing point	
Boiling point /Initial boiling point & boiling range	N/D
Flammability	
Lower and upper explosion limit	N/D
Flash point ^o C	
Auto-ignition temperature	235°C at 101.89 kPa
Decomposition	N/D
рН	N/D
Kinematic Viscosity	N/D
Solubility	In alcohol and other oils. 87°C of the substance have solubility >40 mg /L into H20.
Partition coefficient n-octanol/	4.38 for the component d-limonene.
water (log value)	3.38 for the component Linalool.
	4.39 for the component Linalyl Acetate
Vapour Pressure AT 25°C	123.1 Pa
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Density and /or relative density	
Relative vapour density	N/D
Particle characteristics	
9.2 Other information	
Specific gravity d $_{20}$ 20	0.8700 TO 0.8820
Optical rotation @ 20°C	
Refractive index @ 20 ^o C	
Explosive Properties	None
Oxidising Properties	None
Typical analysis of major	
components	

10. Stability and reactivity		
10.1 Reactivity	This Substance does not react with water. The substance is unreactive if it	
	is stored according to the recommendations in Section 7 and in accordance with the identified uses (see Subsection 1.2.	
10.2 Chemical Stability	Stable substance when stored according to the recommendations in Section	
	7 and in accordance with the identified uses (see Subsection 1.2). Shelf Life:	
	18 months from date of production.	
10.3 Possibility of hazardous	None if used according to storage and handling conditions (see Section7)	
reactions:	and identified uses (see Subsection 1.2).	
10.4 Conditions to avoid:	Avoid exposure to highly oxidising agents.	
10.5 Incompatible Materials:	Avoid exposure to highly oxidising agents.	
10.6 Hazardous Decomposition	No known hazardous decomposition products under recommended storage	
Products	and handling conditions. In case of combustion: Carbon monoxide (CO,	
	Carbon monoxide (CO2).	

11. Toxicological info	ormation
11.1 Information on	hazard classes as defined in Regulation (EC) No 1272 /2008
Information on	Based on available information on Bergamot Oil and its constituents, Bergamot oil is
Toxicological	expected to be readily and fully absorbed by the oral route (approximately 100%). Dermal
Effects	absorption is expected to be lower. However, as no specific information is available on the
	extent of dermal and inhalation absorption, this is assumed to be comparable to oral
	absorption as a worst case. For risk assessment purposes, the absorption after oral, dermal
	and inhalation exposure are therefore assumed to be identical and route to route
	extrapolation form the oral to inhalation and dermal route is not required.
Acute toxicity:	LD50:>10000 mg/kg bw (male) (method: rat (albino) gavage – equivalent Guideline 401
(Oral)	OECD).
Acute toxicity:	LD50:>20000 mg/ kg bw (method: rabbit (albino) – Guideline 402 OECD).
(Dermal)	
Acute toxicity:	Not determined.
(Other Routes)	
Skin corrosion	
/irritation:	
Seriously eye	Not determined.
damage/irritation:	
Respiratory or skin	Respiratory sensation; - Not determined.
sensitisation:	Considered as a skin sensitiser due to content of limonene and linalool.
Germ cell	No adverse effect observed (negative).
mutagenicity:	
Carcinogenicity:	Not determined.



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Reproductive	Oral Route: Adverse effect observed NOAEL: 365 mg/kg bw/day (rat) (read across with
toxicity:	coriander oil study – Owner company: Lorillard, Inc Report date: 1989.04.12).
Development	Oral Route: Adverse effect observed NOAEL: 365 mg/kg bw/day (rat) (read across with
toxicity:	coriander oil study – Owner company: Lorillard, Inc Report date: 1989.04.12).
Summary of	Not determined.
evaluation of the	
CMR properties:	
STOT- single	Not determined.
exposure,	
STOT-repeated	Oral Route: target organs: urogenital: kidneys; digestive: stomach NOAEL: 117mg/bw/day
exposure:	(subacute; rat).
Aspiration hazard:	Can be fatal if swallowed and enters airways due to volatiles hydrocarbons content >10%

12. Ecological information		
12.1 Toxicity	Aquatic Environment	Harmful to aquatic life with long lasting effects.
	Acute - Fish (Semi-	LL50 (24h): 57 mg/L test mat. (nominal
	static Freshwater)	Oncorhynchus mykiss – metodo OECD
		Guideline 203 (Fish, Acute Toxicity Test).
		LL50 (48h): 18 mg/L test mat. (nominal
		Oncorhynchus mykiss – metodo OECD
		Guideline 203 (Fish, Acute Toxicity Test).
		LL50 (72h): 18 mg/L test mat. (nominal
		Oncorhynchus mykiss – metodo OECD
		Guideline 203 (Fish, Acute Toxicity Test).
		LL50 (96H): 18 mg/L test mat. (nominal
		Oncorhynchus mykiss – metodo OECD
		Guideline 203 (Fish, Acute Toxicity Test).
	Acute- Aquatic	EL50 (24h): 60 mg/L test mat. – OECD Guideline
	Invertebrates (Static	202 (Daphnia sp. Acute Immobilisation Test).
	Freshwater)	EL50 (48h): 33 mg/L test mat. – OECD Guideline
		202 (Daphnia sp. Acute Immobilisation Test).
		NOEL (48h): 18 mg/L test mat. (nominal) - OECD
		Guideline 202 (Daphnia sp. Acute
		Immobilisation Test).
	Acute – Algae and	EL50 (72h): 11 mg/L test mat. (Tested as WAF)
	Aquatic Plants (Static	(nominal) OECD Guideline 201 (Alga, Growth
	Freshwater)	Inhibition Test).
	Acute - Other	Not tested
	Organisms	
	Chronic	Not tested.
12.2 Persistency degradability	is not persistent.	
12.3 Bio accumulative potential	As the constituents are readily biodegradable is not expected.	
12.4 Mobility in soil	This substance is considered as a readily biodegradable NCS. Based on the	
	, , ,	f the NCS, simulation tests in surface water,
	sediment and soil are not required.	
12.5 Results of PBT and vPvB	This substance is not PBT/vPvB.	
Assessment		
12.6 Endocrine disrupting		
properties		





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12.7 Other adverse effects	Not determined.
12 Dispession and identicate	
13. Disposal considerations	
13.1 Waste treatment methods	The containers used for this product must completely empty before
	disposal. Disposal on contents and containers should be in accordance with
	local/ regional/national/international regulations. Disposal of the product
	into the environment is illegal.
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	UN1169
14.2 UN proper Shipping name	EXTRACTS, AROMATIC, LIQUID
14.3 Transport hazard class(es)	3
14.4 Packing group	
14.5 Environmental hazards	Marine pollutant
14.6 Special precautions for user	This product contains constituents' flammables and dangerous to the environment. In case of pouring out, make sure to label new package, accordingly, reproducing original label with relevant symbols.
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		
I.e., EU Directives	No specific EU provisions and/ or regulations apply to this substance.	
15.2 Chemical Safety Assessment	A study for the Chemical Safety Assessment of the substance was	
	conducted during the preparation of registration for REACH.	

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 seveneses

(ii) Abbreviations and acronyms:	
CSR	Chemical Safety Report
CSA	Chemical Safety Assessment.
CLP	Regulation (EU) No. 1272/2008
Asp. Tox.	Aspiration Hazard
Aquatic Chronic	Aquatic Chronic
Skin Irrit.	Skin Irritation Hazard
Skin Sens.	Skin Sensitisation Hazard





Eye Irrit.	Eye Irritation Hazard			
Flam. Liq	Flammable Liquid Hazard			
WAF	Water Accommodated Fractions			
LD50	Lethal Dose 50.			
LL50	Lethal Loading 50.			
EL50	Effective loading 50.			
NOAEL	No-Observed Adverse	Effect Level.		
NOEL	No-Observed Effect Le	No-Observed Effect Level.		
LOEL	Lowest Observed Effe	ct Level.		
OECD	Organisation for Econo	omic Co-operation and Develop	nent.	
(iii) Key Liter	rature references and sourc			
	CAS	ID	Note	
EINECS	89957-91-5	289-612-9		
TSCA	8007-75-8	-		
IECSC	8007-75-8	-		
KECI	8007-75-8	KE-26829		
DSL	8007-75-8	-		
AICS	8007-75-8	-		
ENCS-ISHL	8007-75-8	11-(1)-575		
NZIOC	8007-75-8	-		
PICCS	8007-75-8	-		
FDA	-	21CFR182.20		
СоЕ	-	137		
FEMA	8007-75-8	2153		
HS Code	-	3301192000	EU TARIC	
16.3	ContaminantsThis product has been analysed to ensure that the levels of heavy metals, phthalates and allergens are respectively complaint with the relevant regulations.			
(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			



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(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 p	roduct specification. Always satisfy suitability for specific application. Retest after 6 months.	
Disclaimer:		
-	this material safety data sheet is meant to represent typical data/analysis for this product and	
	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		
	any specification or for any given application and buyers should seek to verify their	
requirements and pro		
	on in this MSDS is correct to the best of our knowledge, covering the involved product at	

The information in this MSDS is correct to the best of our knowledge, covering the involved product at the date of its publication. They apply to the product as such as per the described specifications. The information is not related to the use of the product in combination with any other material or any other process altering its characteristics. The end user should apply to the existing normative and laws covering the use of the product, the hygiene and security at work. The container used during transportation must be considered only as a temporary container and it must not be considered in any case adequate for medium or long-term warehousing. Upon receipt, our product must be stored as soon as possible in compliance with Section 7 of this MSDS. The information given in this MSDS is in accordance with the Reg. (EU) No. 2015/830, Reg. (EC) No. 1907/2006 and Reg. (EC) No. 1272/2008.