


<b>1. Identification of the substances / mixture and of the company/undertaking.</b>			
<b>1.1 Product identifier: Geranium Oil Bourbon</b>			
<b>Substance name:</b>			
<b>Biological Definition</b>			
<b>INCI Name</b>			
<b>Synonyms &amp; Trade Names</b>			
<b>EC NO:</b>	<b>290-140-0</b>	<b>CAS NO: 8000-46-2</b>	<b>EINECS CAS Number: 90082-51-2</b>
<b>Index No:</b>	<b>Reach Registration No:</b>		
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>			
<b>Identified uses:</b>			
<b>Uses advised against:</b>			
<b>1.3 Details of the supplier of the safety data sheet</b>			
<b>Company</b>	Penny Price Aromatherapy Ltd		
	Unit D3 Radius Court		
	Maple Drive		
	Hinckley		
	Leicestershire LE10 3BE		
<b>Email</b>	info@penny-price.com		
<b>1.4 Emergency Telephone Number</b>	00 44 (0) 1455 251020 opening hours Mon – Thurs 9am – 5pm, Fri 9am – 2pm. <u>Or call NHS 111 or NHS 999</u>		

<b>2. Hazards Identification</b>			
<b>2.1 Classification of the substance or mixture</b>			
<b>Classified according to Regulation (EC) 1272/2008 (CLP) as amended</b>	Physical and Chemical Hazards		
	Human Health	Skin Irrit. 2 - H315	Eye Dam. 1 - H318
		Skin Sens. 1 - H317	
	Environment	Aquatic Chronic. 2 – H411	
<b>2.2 Label Element Labelling according to Regulation (EC) No.1272/2008:</b>			
			
<b>Signal Word. DANGER</b>			
<b>Hazard statements.</b>			
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.
H318	Causes serious eye damage.	H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.	H410	Very toxic to aquatic with long lasting effects.

H411	Toxic to aquatic life with long lasting effects.	H412	Harmful to aquatic with long lasting effects.
<b>Precautionary statements.</b>			
P273	Avoid release to the environment.		
P280	May cause an allergic skin reaction.		
P302+P352	IF ON SKIN: Wash with plenty of soap and water.		
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.		
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.		
P391	Collect spillage.		
<b>Supplementary Precautionary Statements:</b>			
<b>2.3 Other hazards – Results of PBT and vPvB According to Annex XIII</b>	No data available.		
<b>Adverse Physio-chemical Properties</b>			
<b>Adverse Effects on Human Health</b>			

**3. 1 Composition / information on ingredients:**

Substance name	Index number under CLP Annex VI	Weight % content (or range)	CL, M-Factor, ATE
Citronellol	CAS: 106-22-9 EC: 203-375-0	25<=x%, <50%	Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic. 2 - H411
Geraniol	CAS: 106-24-1 EC: 203-377-1	10<=x%<25%	Skin Irrit. 2 – H315 Eye Dam. 1 – H318 Skin Sens. 1 – H317
Linalool	CAS: 78-70-6 EC: 201-134-4	10<=x%<25%	Eye Irrit. 2 – H319
Menthone	CAS: 89-80-5 EC: 201-727-4	2.5<=x%<10%	Aquatic Chronic. 3 - H412
D, L-Isomenthone	CAS: 491-07-6 EC: 207-727-4	2.5<=x%<10%	Aquatic Chronic. 3 - H412
Citral	CAS: 5392-40-5 EC: 226-394-6	[1] 0<=x%<2.5%	Skin Irrit. 2 - H315 Skin Sens. 1 – H317
Beta Caryophyllene	CAS: 87-44-5 EC: 201-746-1	0<=x%<2.5%	Asp. Tox. 1 – H304
Pinenes (Alpha or Beta)		0<=x%<2.5%	Flam. Liq. 3 – H226 Asp. Tox. 1 – H304 Skin Sens. 1 – H317 Aquatic Acute. 1 – H400

			M Acute = 1 Aquatic Chronic. 1 – H410 M Chronic = 1
® -P-Mentha-1, 8-Diene	CAS: 5989-27-5 EC: 227-813-5	[1] 0<=x%<2.5%	Flam. Liq. 3 – H226 Skin Irrit. 2 – H315 Skin Sens. 1 – H317 Aquatic Acute. 1 – H400 M Acute = 1 Aquatic Chronic. 1 – H410 M Chronic = 1
Alpha -Pinene X	CAS: 80-56-8 EC: 201-291-9	[1]0<=x%<2.5%	Flam. Liq. 3 – H226 Skin Sens. 1 – H317 Asp. Tox. 1 - H304 Aquatic Acute. 1 - H400 M Acute = 1 Aquatic Chronic. 1 – H410 M Chronic = 1
B-Pinene	CAS: 127-91-3 EC: 204- 872-5	[1]0<=x%<2.5%	Flam. Liq. 3 - H226 Skin Sens. 1 – H317 Asp. Tox. 1 – H304 Aquatic Acute. 1 – H400 M Acute = 1 Aquatic Chronic. 1 – H410 M Chronic = 1
Information on Ingredients	[1] Substance for which maximum workplace exposure limits are available.		

#### **4. First Aid Measures**

<b>4.1 General</b>	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 and show them the label.
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 show them the label. Do not give milk or fatty oils.

#### **4.2 Most important symptoms and effects, both acute and delayed:**

	No data available.
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#### **4.3 Indication of any immediate medical attention and special treatment need**

	No data available.
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#### **5. Firefighting Measures**

##### **5.1 Extinguishing Media:**

<b>Suitable extinguishing media:</b>	
<b>Unsuitable extinguishing media:</b>	
<b>5.2 Special hazards arising from the substances or mixture:</b>	
<b>Hazardous combustion products:</b>	A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke. In the event of a fire, the following may be formed: Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ).
<b>5.3 Advice for firefighters</b>	No data available.

<b>6 Accidental release measures</b>	
<b>6.1 Personal precautions, protective equipment, and emergency procedures:</b> Consult the safety measures listed under headings 7 and 8.	
<b>6.1.1 For non-emergency personnel:</b> Avoid any contact with the skin and eyes.	
<b>Protective equipment:</b>	First aid workers will be equipped with suitable personal protective equipment (see section 8).
<b>Emergency procedures:</b>	
<b>6.1.2 For Emergency responders</b>	
<b>6.2 Environmental precautions</b>	Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Prevent any material from entering drains or waterways.
<b>6.3 Methods for cleaning up – 6.3.1 For containment:</b>	
<b>6.3.2 For cleaning up:</b>	Clean preferably with a detergent, do not use solvents.
<b>6.3.3. Other information:</b>	
<b>6.4 Reference to other sections</b>	No data available.

<b>7. Handling and storage</b>	
<b>7.1 Precautions for safe handling:</b> Requirements relating to storage premises apply to all facilities where the substance is handled. Individuals with a history of skin sensitisation should not, under any circumstances, handle this mixture. Always wash hands after handling. Remove and wash contaminated clothing before re-use. Emergency showers and eye wash stations will be required in facilities where mixture is handled constantly.	
<b>Protective measures:</b> 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.	
<b>Measures to prevent fire:</b>	Prevent access by unauthorised personnel.

<b>Measures to prevent aerosol and dust generation:</b>	
<b>Measures to protect the environment:</b>	
<b>Advice on general occupational hygiene:</b>	Observe good personal hygiene, and do not eat, drink, or smoke whilst handling.
<b>7.2 Conditions for safe storage, including any incompatibilities:</b> No data available.	
<b>Technical measures and storage conditions:</b>	
<b>Packaging Materials:</b>	Always keep packaging made of an identical material to the original.
<b>Requirements for storage and vessels:</b>	
<b>Storage Class: Further information on storage containers:</b>	
<b>7.3 Specific end use(s).</b>	No data available.
<b>Recommendations:</b>	
<b>Industrial sector specific solutions:</b>	

<b>8. Exposure controls/Personal protection:</b>					
<b>8.1 Control parameters: Occupational Exposure Limits:</b>					
<b>ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010)</b>					
<b>CAS</b>	<b>TWA</b>	<b>STEL</b>	<b>Ceiling</b>	<b>Definition</b>	<b>Criteria</b>
5392-40-5	5 (IFV) ppm			Skin; SEN; A4	

80-56-8	20 ppm			SEN; A4	
127-91-3	20 ppm			SEN; A4	

**Germany – AGW (BAuA – TRGS 900, 21/06/2010)**

CAS	VME	VME	Excess	Notes
5989-27-5		5 ppm 28 mg/m <sup>3</sup>		4 (II)

**Derived No Effect Level (DNEC) or Derived Minimum Effect Level (DMEL):**

<b>LINALOOL</b> <b>(CAS: 78-70-6)</b>	<b>Final Use</b>	Workers
	<b>Exposure Method</b>	Dermal contact.
	<b>Potential Health Effects</b>	Short term systemic effects.
	<b>DNEL</b>	5 mg/kg body weight/day
	<b>Exposure Method</b>	Dermal Contact
	<b>Potential Health Effects</b>	Short term local effects
	<b>DNEL</b>	15 mg of substance /cm <sup>2</sup>
	<b>Exposure Method</b>	Dermal Contact
	<b>Potential Health Effects</b>	Long term systemic effects.
	<b>DNEL</b>	2.5 mg/kg body weight/day
	<b>Exposure Method</b>	Dermal Contact
	<b>Potential Health Effects</b>	Long term local effects.
<b>DNEL</b>	15 mg of substance / cm <sup>2</sup>	
<b>Exposure Method</b>	Inhalation	
<b>Potential Health Effects</b>	Short term systemic effects	
<b>DNEL</b>	16.5 mg of substance /m <sup>3</sup> .	
<b>Exposure Method</b>	Inhalation	
<b>Potential Health Effects</b>	Long term systemic effects	
<b>DNEL</b>	2.8 mg of substance / m <sup>3</sup>	
<b>Final Use</b>	Consumers	
<b>Exposure Method</b>	Ingestion	
<b>Potential Health Effects</b>	Short term systemic effects	
<b>DNEL</b>	1.2 mg/kg body weight / day.	
<b>Exposure Method</b>	Ingestion	
<b>Potential Health Effects</b>	Long term systemic effects.	
<b>DNEL</b>	0.2 mg/kg body weight /day	
<b>Exposure Method</b>	Dermal contact	
<b>Potential Health Effects</b>	Short term systemic effects	
<b>DNEL</b>	2.5 mg/kg body weight/ day	
<b>Exposure Method</b>	Dermal Contact	
<b>Potential Health Effects</b>	Short term systemic effects	
<b>DNEL</b>	15 mg of substance / cm <sup>2</sup>	
<b>Exposure Method</b>	Dermal Contact	
<b>Potential Health Effects</b>	Long term systemic effects	
<b>DNEL</b>	1.25 mg/kg body weight/day	
<b>Exposure Method</b>	Dermal Contact	
<b>Potential Health Effects</b>	Long term local effects.	
<b>DNEL</b>	15mg of substance /cm <sup>2</sup>	

	<b>Exposure Method</b>	Inhalation
	<b>Potential Health Effects</b>	Short term systemic effects
	<b>DNEL</b>	4.1 mg of substances/m <sup>3</sup>
	<b>Exposure Method</b>	Inhalation
	<b>Potential Health Effects</b>	Long term systemic effects.
	<b>DNEL</b>	0.7 mg of substance/m <sup>3</sup>
<b>Predicted No Effect Concentration (PNEC);</b>		
<b>LINALOOL (CAS: 78-70-6)</b>	<b>Environmental Compartment PNEC</b>	Soil 0.327 mg/kg
	<b>Environmental Compartment PNEC</b>	Fresh water. 0.2 mg/l
	<b>Environmental Compartment PNEC</b>	Sea water 0.02 mg/l
	<b>Environmental Compartment PNEC</b>	Intermittent wastewater. 2 mg/l
	<b>Environmental Compartment PNEC</b>	Fresh water sediment. 2.22 mg/kg
	<b>Environmental Compartment PNEC</b>	Marine sediment. 0.222 mg/kg
	<b>Environmental Compartment PNEC</b>	Wastewater treatment plant. 10 mg/l
<b>8.2 Exposure controls</b>		
<b>Engineering Measures</b>	Ensure good ventilation of working area.	
<b>8.2.2 Personal Protection equipment:</b>	Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Never eat, drink, or smoke during use. Remove and wash contaminated clothing before reusing. Ensure that there is adequate ventilation, especially in confined areas.	
8.2.2.1 Eye / face protection	Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes. Before handling, wear safety goggles with protective sides in accordance with standard EN166. In the event of high danger, protect the face with a face shield. Prescription glasses are not considered as protection. Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours. Provide eyewash station facilities where the product is handled constantly.	
8.2.2.2 Skin Protection		
Hand protection	Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required. Recommended properties: Impervious gloves in accordance with standard EN374.	
Other skin protection	Avoid skin contact. Wear suitable protective clothing. Suitable type of protective clothing: In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.	

	In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personal should be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.
8.2.2.3 Respiratory protection	
Ventilation	
8.2.2.4 Thermal hazards	
<b>8.2.3 Environmental exposure controls</b>	
<b>9. Physical and chemical properties- C of A</b>	
<b>9.1 Information on basic physical and chemical properties</b>	
Colour	
Appearance	Fluid liquid
Odour	
Melting Point / freezing point	Not relevant.
Boiling point /Initial boiling point & boiling range	Not relevant.
Flammability	
Lower and upper explosion limit	
Flash Point Interval	93°C <FP <=100°C
Auto- ignition temperature	Not relevant.
Decomposition temperature	Not relevant.
pH	Not relevant.
Kinematic Viscosity	
Solubility in Water	Insoluble.
Viscosity	V<7 mm <sup>2</sup> /s (40°C)
Solubility in other Solvents	
Partition coefficient n-octanol/ water (log value)	
Vapour Pressure (50°C)	Not relevant
Density and /or relative density	<1
Relative vapour density	
Particle characteristics	
Explosive Properties	
Oxidising Properties	
<b>9.2 Other information</b>	No data available.
Specific gravity d <sub>20</sub> <sup>20</sup>	
Optical rotation @ 20°C	
Refractive index @ 20°C	



Typical analysis of major components	
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<b>10. Stability and reactivity</b>	
<b>10.1 Reactivity</b>	No data available
<b>10.2 Chemical Stability</b>	This mixture is stable under the recommendation handling and storage conditions in Section 7.
<b>10.3 Possibility of hazardous reactions:</b>	No data available
<b>10.4 Conditions to avoid:</b>	No data available.
<b>10.5 Incompatible Materials:</b>	No data available.
<b>10.6 Hazardous Decomposition Products</b>	The thermal decomposition may release/foam: Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ).

<b>11. Toxicological information</b>			
<b>11.1 Information on hazard classes as defined in Regulation (EC) No 1272 /2008</b>			
<b>Information on Toxicological Effects</b>	May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours. May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days. Serious eye damage is typified by destruction of cornea, persistent corneal opacity, and iritis. May cause an allergic reaction by skin contact.		
<b>11.2 Substance:</b>			
<b>Acute toxicity</b>	Alpha-Pinene X (CAS: 80-56-8)	Oral Route	LD50=3700 mg/kg
	D, L-Isomenthone (CAS: 491-07-6)	Oral Route	LD50=2500 mg/kg
	Menthone (CAS: 89-80-5)	Oral Route	LD50=2500 mg/kg
	Linalool (CAS: 78-70-6)	Oral Route	LD50= 2200 mg/kg Species: Mouse OECD Guideline 401 (Acute Oral Toxicity)
		Dermal Route	LD50=5610 mg/kg Species: Rabbit OECD Guideline 402 (Acute Dermal Toxicity)
	Geraniol (CAS: 106-24-1)	Oral Route	LD50=4200 mg/kg
<b>Skin corrosion /irritation:</b>	Linalool (CAS: 78-70-6)	Oral Route	LD50=3450 mg/kg
		Dermal Route	LD50= 2650 mg/kg
		Corneal Haze	Average Score = 1 Species: Rabbit Duration of Exposure: 24 h



			OECD Guideline 405 (Acute Eye Irritation / Corrosion)
		Iritis	Average Score = 0.6 Species: Rabbit Duration of Exposure: 24 h OECD Guideline 405 (Acute Eye Irritation / Corrosion)
		Conjunctival Redness	Average Score = 2.3 Species: Rabbit Duration of Exposure: 24 h OECD Guideline 405 (Acute Eye Irritation / Corrosion)
<b>Seriously eye damage/irritation:</b>	Linalool (CAS: 78-70-6)	Corneal Haze	Average Score = 1 Species: Rabbit Duration of Exposure: 24 h OECD Guideline 405 (Acute Eye Irritation / Corrosion)
		Iritis	Average Score = 0.6 Species: Rabbit Duration of Exposure: 24 h OECD Guideline 405 (Acute Eye Irritation / Corrosion)
		Conjunctival Redness	Average Score = 2.3 Species: Rabbit Duration of Exposure: 24 h OECD Guideline 405 (Acute Eye Irritation / Corrosion)
<b>Respiratory or skin sensitisation:</b>			
<b>Germ cell mutagenicity:</b>	Linalool (CAS: 78-70-6)	Mutagenesis (In Vivo)	Negative. Species: Mouse OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) OECD Guideline 471 (Bacterial Reverse Mutation Assay)
		Ames Test (In Vitro)	Negative. With or without metabolic activation. Species: S. typhimurium TA1535
<b>Carcinogenicity:</b>	Linalool (CAS: 78-70-6)	Carcinogenicity Test	Negative. No carcinogenic effect. Species: Rat

<b>Reproductive toxicity:</b>	Linalool (CAS: 78-70-6)	Study on development	No toxic effect for reproduction. Species: Rat OECD Guideline 421. (Reproduction / Developmental Toxicity Screening Test)
<b>Summary of evaluation of the CMR properties:</b>			
<b>STOT- single exposure,</b>			
<b>STOT-repeated exposure:</b>			
<b>Aspiration hazard:</b>			
<b>11.3 Mixture</b>	No toxicological data available for the mixture.		
<b>Monograph (s) from the IARC (International Agency for Research on Cancer)</b>	CAS 5989 -27-5: IARC Group 3: The agent is not classified as to its carcinogenicity to humans.		

<b>12. Ecological information</b>			
<b>12.1 Toxicity</b>	Toxic to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways.		
<b>12.1.1 Substances Linalool (CAS: 78-70-6)</b>	Fish Toxicity	Duration of exposure: 96 h LC50 = 27.8 mg/l Species: Oncorhynchus mykiss OECD Guideline 203 (Fish, Acute Toxicity Test)	
	Crustacean Toxicity	Duration of exposure: 48 h EC50 = 59 mg/l Species: Daphnia magna OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)	
	Algae Toxicity	Duration of exposure: 96 h ECr50 = 88.3 mg/l Species: Desmodesmus subspicatus Other Guideline	
	No aquatic toxicity data available for the substances.		
<b>12.1.2 Mixtures</b>	No aquatic toxicity data available for the mixture.		
<b>12.2 Persistency &amp; degradability</b>	No data available.		

<b>12.3 Bio accumulative potential</b>	No data available.
<b>12.4 Mobility in soil</b>	No data available.
<b>12.5 Results of PBT and vPvB Assessment</b>	No data available.
<b>12.6 Endocrine disrupting properties</b>	No data available.

<b>13. Disposal considerations</b>	
13.1 Waste treatment methods	Do not pour into drains or waterways.
13.1.1. Product /Packaging disposal:	Soiled Packaging: Empty container completely. Keep label on container. Give to a certified disposal contractor.
13.1.2 Waste treatment-relevant information:	Waste management is carried out without endangering human health, without harming the environment and without risk to water, air, soil, plants, or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.
13.1.3 Sewage disposal-relevant information:	
13.1.4 Other disposal-relevant recommendations:	

<b>14. Transport information:</b> Transport product in compliance with provision of the ADR for road, RID for rail, IMDG for sea and ICAO/ IATA for air transport (ADR 2015 – IMDG 2014 – ICAO/IATA 2015).	
14.1 UN Number or ID number	UN3082
14.2 UN proper Shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Citronellol)
14.3 Transport hazard class(es)	 9
14.4 Packing group	III
14.5 Environmental hazards	 Environmentally hazardous material.

<b>14.6 Special precautions for user</b>										
ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 375 601	E1	3	E

**Not subject to this regulation if Q ≤ 51/5 kg (ADR 3.3.1 -DS 375)**

IMDG	Class	2° Label	Pack gr.	LQ	EMS	Provis.	EQ
	<b>9</b>	-	III	5L	F-A, S-F	274 335 969	E1

**Not subject to this regulation if Q <= 51/5 kg (IMDG 3.3.1 – 2.10.2.7)**

IATA	Class	2°Label	Pack gr.	Passenger	Passenger	Cargo	Cargo	Note	EQ
	9	-	III	964	450 L	964	450 I	A97 A158 A197	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158 A197	E1

Not subject to this regulation if Q <= 51/5 kg (IATA 4.4.4 -DS A197

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI / IATA and chapter 3.5 of the ADR and IMDG.

14.7 Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code	No data available
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**15 Regulatory information**

**15.1 Safety, health, and environmental regulations / legislation specific for the substance or mixture:** No data available.

15.2 Chemical Safety Assessment	No data available.
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**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
<b>(v) Relevant H-statements (number and full text):</b>	
<b>(vi) Training advice:</b>	
<b>(vii) Further information:</b>	
<b>Shelf life</b>	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



**Penny Price Aromatherapy/ Aroma Formulations**  
**SAFETY DATA SHEET**  
**According to Regulation (EC) No.1272/2008**

contract to supply to any specification or for any given application and buyers should seek to verify their requirements and product use.