


1. Identification of the substances / mixture and of the company/undertaking.		
1.1 Product identifier:		
Substance name: Thyme Oil Linalool		
Biological Definition		
INCI Name		
Synonyms & Trade Names		
EC NO:	CAS NO:	EINECS CAS Number:
Index No:	Reach Registration No:	
1.2 Relevant identified uses of the substance or mixture and uses advised against		
Identified uses: Multiply Uses		
Uses advised against: No further relevant information available.		
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	Flam. Liq. 3 – H226	
	Human Health	Repr. 2 – H361	Asp. Tox. 1 – H304
		Skin Corr. 1B – H314	Eye Dam. 1 – H318
		Acute Tox. 4 – H302	Skin Sens. 1 – H317
Environment	Aquatic Acute 2 – H401	Aquatic Chronic 2 – H411	
2.2 Label Element Labelling according to Regulation (EC) No.1272/2008:			
			
Signal Word. DANGER			
Hazard-determining Components of Labelling		Thymol p-cymene Carvacrol Linalool d-Limonene alpha-Pinene	

		beta-Caryophyllene Nerolidol Beta-Pinene	
Hazard statements.			
H226	Flammable liquid and vapour	H227	Combustible liquid
H228	Flammable solid.	H302	Harmful if swallowed.
H303	May be harmful if swallowed.	H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage	H315	Causes skin irritation.
H316	Causes mild skin irritation.	H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.	H319	Causes serious eye irritation.
H320	Causes eye irritation.	H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.	H401	Toxic to aquatic life.
H402	Harmful to aquatic life.	H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects	H413	May cause long lasting harmful effects to aquatic life.
Precautionary statements.			
P301+P310	IF SWALLOWED: Immediately call a POISON CENTRE/doctor.		
P303+P361+P338	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P362+P364	Take off contaminated clothing and wash it before reuse.		
P405	Store locked up.		
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations		
Supplementary Precautionary Statements:			
2.3 Other hazards – Results of PBT and vPvB According to Annex XIII	Not applicable.		
Adverse Physio-chemical Properties			
Adverse Effects on Human Health			

3. 1 Composition / information on ingredients:

Chemical Characterisation		Mixtures	
Description		NCS (UVCB) Constituents Information	
Substance name	Index number under CLP Annex VI	Weight % content (or range)	CL, M-Factor, ATE
Thymol	CAS: 89-83-8 EC: 201-944-8	25-50%	Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 4, H302 Aquatic Chronic 2, H411 Aquatic Acute 2, H401
p-cymene	CAS: 99-87-6 EC: 202-796-7	25-50%	Flam. Liq. 3, H226 Repr. 2, H361 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Acute Tox. 5, H303 Skin Corr. 3, H316 Aquatic Acute 2, H401 Specific concentration limit: Repr. 2, H361: C ≥ 3%
p-Mentha-1,4-diene	CAS: 99-85-4 EC: 202-794-6	2.5-10%	Flam. Liq. 3, H226 Repr. 2, H361 Asp. Tox. 1, H304 Acute Tox. 5, H303 Skin Corr. 3, H316 Specific concentration limit: Repr. 2, H361: C ≥ 3%
Linalool	CAS: 78-70-6 EC: 201-134-4	1-10%	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Flam. Liq. 4, H227 Acute Tox. 5, H303 Aquatic Acute 3, H402
Carvacrol	CAS: 499-75-2 EC: 207-889-6	1-10%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Aquatic Acute 3, H402
d-limonene	CAS: 5989-27-5 EC: 227-813-5	1-10%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

alpha-Pinene	CAS: 80-56-8 EC: 201-291-9	1-10%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Myrcene	CAS: 123-35-3 EC: 204-622-5	1-10%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Camphene	CAS: 79-92-5 EC: 201-234-8	1-10%	Flam. Sol. 2, H228 Eye Irrit. 2B, H320 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Borneol	CAS: 507-70-0 EC: 208-080-0	1-10%	Flam. Sol. 2, H228 Skin Irrit.2, H315 Acute Tox. 5, H303 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
beta-Caryophyllene	CAS: 87-44-5 EC: 201-746-1	≤1%	Asp. Tox. 1, H304 Skin Sens. 1B, H317 Aquatic Chronic 4, H413
Nerolidol	CAS: 7212-44-4 EC: 230-597-5	≤1%	Skin Sens. 1B, H317 Eye Irrit. 2B, H320 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
beta-Pinene	CAS: 127-91-3 EC: 204-872-5	≤1%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Additional Information	For the wording of the listed hazard phrases refer to Section 16.		

4. First Aid Measures	
4.1 General	Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.
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	
	No further relevant information available.
5. Firefighting Measures	
5.1 Extinguishing Media:	
Suitable extinguishing media:	Carbon dioxide (CO ₂), powder or water spray or alcohol resistant foam.
Unsuitable extinguishing media:	Water with full jet.
5.2 Special hazards arising from the substances or mixture: None	
Hazardous combustion products:	During heating or in case of fire poisonous gases are produced. Carbon monoxide (CO).
5.3 Advice for firefighters	Mount respiratory protective device.
6 Accidental release measures	
6.1 Personal precautions, protective equipment, and emergency procedures	
6.1.1 For non-emergency personnel	
Protective equipment:	
Emergency procedures:	Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
6.1.2 For Emergency responders	
6.2 Environmental precautions	Do not allow product to reach sewage system or any water course. Prevent seepage into sewage system, work pits and cellars. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water
6.3 Methods for cleaning up –	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation
6.3.1 For containment:	
6.3.2 For cleaning up:	
6.3.3. Other information:	
6.4 Reference to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. Handling and storage	
7.1 Precautions for safe handling	
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. Open and handle receptacle with care.	
Measures to prevent fire:	Keep ignition sources away – do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
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 only in unopened original receptacles. Keep receptacle tightly sealed. Store in the dark.
Storage Class: Further information on storage containers:	
7.3 Specific end use(s).	No further relevant information available.
Recommendations:	
Industrial sector specific solutions:	

8. Exposure controls/Personal protection:	
Additional Information about Design of Technical Facilities	No further data; see item 7.
8.1 Control parameters	
Ingredients with Limit Values that Require Monitoring at the Workplace	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional Information	The lists valid during the making were used as basis.
8.2 Exposure controls	

8.2.2 Personal Protection equipment: No information available.

General Protective and Hygienic Measures	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin.
8.2.2.1 Eye / face protection	Tightly sealed goggles.
8.2.2.2 Skin Protection	
Hand protection	Protective gloves. The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Other skin protection	
8.2.2.3 Respiratory protection	Not required
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	According to product specification.
Appearance	Liquid
Odour	Characteristic.
Melting Point / freezing point	Undetermined.
Boiling point /Initial boiling point & boiling range	
Flammability (Solid, Gas)	Not applicable.
Lower and upper explosion limit	Not determined.
Flash point (Closed Cup – ASTM D6450)	56°C
Auto- ignition temperature	Product is not self-igniting.
Decomposition temperature	Not determined
pH	
Kinematic Viscosity	
Solubility in / Miscibility with Water	Not miscible or difficult to mix.

Solubility in other Solvents	
Partition coefficient n-octanol/ water (log value)	
Vapour Pressure	Not determined.
Density and /or relative density	
Relative vapour density	
Particle characteristics	
Explosive Properties	Not determined.
Oxidising Properties	
9.2 Other information	No further relevant information available.
Specific gravity d_{20}^{20}	
Optical rotation @ 20°C	
Refractive index @ 20°C	
Typical analysis of major components	

10. Stability and reactivity		
10.1 Reactivity	No further relevant information available.	
10.2 Chemical Stability	Thermal Decomposition/ Conditions to Avoid	No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.	
10.4 Conditions to avoid:	No further relevant information available.	
10.5 Incompatible Materials:	No further relevant information available.	
10.6 Hazardous Decomposition Products	No dangerous decomposition products known.	








11. Toxicological information			
11.1 Information on hazard classes as defined in Regulation (EC) No 1272 /2008			
Information on Toxicological Effects			
Acute toxicity:			
LD/LC50 Values Relevant for Classification:			
Thymol 89-83-8	Oral	LD50	980 mg/kg (rat)
p-cymene 99-87-6	Oral	LD50	4750 mg/kg (rat) (Litchfield & Wilcoxon 1949)
alpha-Pinene 80-56-8	Oral	Acute Toxicity Estimate (ATM)	500 mg/kg (rat)
Skin corrosion /irritation:	Caustic effect on skin and mucous membranes. Irritant to skin and mucous membranes.		
Seriously eye damage/irritation:	Strong irritant with the danger of severe eye injury.		
Respiratory or skin sensitisation:	Sensitisation possible through skin contact.		
Germ cell mutagenicity:			
Carcinogenicity:			
Reproductive toxicity:	Repr. 2		

Summary of evaluation of the CMR properties:	
STOT- single exposure,	
STOT-repeated exposure:	
Aspiration hazard:	
Additional Toxicological Information	The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful Corrosive Irritant Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

12. Ecological information		
12.1 Toxicity	Aquatic Toxicity	No further relevant information available.
12.2 Persistency & degradability	No further relevant information available.	
12.3 Bio accumulative potential	No further relevant information available.	
12.4 Mobility in soil	No further relevant information available.	
Ecotoxicological Effects	Toxic for fish. Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or un neutralised. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms	
12.5 Results of PBT and vPvB Assessment	Not applicable.	
12.6 Endocrine disrupting properties		
12.7 Other adverse effects	No further relevant information available.	

13. Disposal considerations	
13.1 Waste treatment methods	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
13.1.1. Product /Packaging disposal:	Disposal must be made according to official regulations.
13.1.2 Waste treatment-relevant information:	
13.1.3 Sewage disposal-relevant information:	
13.1.4 Other disposal-relevant recommendations:	Dispose of contents / container in accordance with local / regional / national / international regulations.

14. Transport information

14.1 UN Number or ID number ADR, IMDG, IATA	UN2924
14.2 UN proper Shipping name ADR	UN2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Alpha Pinene, thymol)
IMDG	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Alpha Pinene, thymol), MARINE POLLUTANT
IATA	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Alpha Pinene, thymol)
14.3 Transport hazard class(es) ADR, Class Label	  3+8 (FC) 3+8
IMDG Class Label	   3+8 3/8
IATA Class Label	  3+8 3 (8)
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards Marine Pollutant	Product contains environmentally hazardous substances: d-limonene, alpha-Pinene Yes. Symbol (fish and tree)
14.6 Special precautions for user Danger Code (Kemler) EMS Number Stowage Category Stowage Code	Not applicable. 38 F-E, S-C A SW2 Clear of living quarters.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

Transport/Additional Information ADR Limited Quantities (LQ) Excepted Quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport Category Tunnel Restriction Code	3 D/E
IMDG Limited Quantities (LQ) Excepted Quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation"	UN 2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ALPHA PINENE, THYMOL), 3 (8), III

15 Regulatory information

15.1 Safety, health, and environmental regulations / legislation specific for the substance or mixture

Directives 2012 /18/ EU	Named Dangerous Substances – ANNEX I	None of the ingredients is listed.
	Seveso Category	E2 Hazardous to the Aquatic Environment P5c FLAMMABLE LIQUIDS
	Qualifying Quantity (Tonnes) for the Application of Lower-tier Requirements	200 t
	Qualifying Quantity (Tonnes) for the Application of Upper-tier Requirements	500 t
15.2 Chemical Safety Assessment	A Chemical Safety Assessment has not been carried out.	

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. 3 Flammable liquids, Hazard Category 3.
 Flam. Liq. 4 Flammable liquids, Hazard Category 4.
 Flam. Sol. 1 Flammable solids, Hazard Category 1.
 Flam. Sol. 2 Flammable solids, Hazard Category 2.
 Acute Tox. 4 Acute toxicity - oral, Hazard Category 4.
 Acute Tox. 5 Acute toxicity - oral, Hazard Category 5.
 Skin Corr. 1B Skin corrosion/irritation, Hazard Category 1B.
 Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2.
 Skin Corr. 3 Skin corrosion/irritation, Hazard Category 3.
 Eye Dam. 1 Serious eye damage/eye irritation, Hazard Category 1.
 Eye Irrit. 2A Serious eye damage/eye irritation, Hazard Category 2A.
 Eye Irrit. 2B Serious eye damage/eye irritation, Hazard Category 2B.
 Skin Sens. 1 Skin sensitisation, Hazard Category 1. Skin Sens. 1B
 Skin sensitisation, Hazard Category 1B.
 Repr. 2 Reproductive toxicity, Hazard Category 2.
 Asp. Tox. 1 Aspiration hazard, Hazard Category 1.
 Aquatic Acute 1 Hazardous to the aquatic environment – Acute Aquatic Hazard, Category 1.
 Aquatic Acute 2 Hazardous to the aquatic environment – Acute Aquatic Hazard, Category 2.
 Aquatic Acute 3 Hazardous to the aquatic environment – Acute Aquatic Hazard, Category 3.
 Aquatic Chronic 1 Hazardous to the aquatic environment – Long-term Aquatic Hazard, Category 1.
 Aquatic Chronic 2 Hazardous to the aquatic environment – Long-term Aquatic Hazard, Category 2.
 Aquatic Chronic 4 Hazardous to the aquatic environment – Long-term Aquatic Hazard, Category 4.

(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



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

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