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

1. Identification of the substances / mixture and of the company/undertaking.		
1.1 Product identifier: Lemon Oil Sicilian		
Substance name: Citrus Limon Peel Oil		
Biological Definition		
INCI Name		
Synonyms & Trade Names		
EC NO: 284-515-8	**CAS NO: 8008-56-8**	**EINECS CAS Number: 84929-31-7**
Index No:	**Reach Registration No:**	
1.2 Relevant identified uses of the substance or mixture and uses advised against		
Identified uses: Manufacturing.		
Uses advised against: None in particular		
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. Or 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	Flam. Liq. 3 -H226	
	Human Health	Skin Irrit. 2 -H315	Skin Sens. 1 -H317
	Environment	Aquatic Acute: 1 – H400	Aquatic Chronic. 1 - H410

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

Signal Word. DANGER

Hazard statements.

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.

H400	Very toxic to aquatic life.	H410	Very 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 or doctor.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P405	Store locked up.
P501	Dispose of contents / container to local/ regional / national / international regulations.
Supplementary Precautionary Statements:	
2.3– Results of PBT and vPvB Assessment	No data available to conclude presence of PBT.
Other Hazards	None specified.
Adverse Physio-chemical Properties	
Adverse Effects on Human Health	

3. 1 Composition / information on ingredients:		
Substances	**Chemical Characterisation**	**Lemon Oil Sicilian Cold Pressed**
	EINCES CAS Number	**84929-31-7**
	CAS Number	**8008-56-8**
	EC Number	**284-515-8**

List of Components:

Substance name	**Index number under CLP Annex VI**	**Weight % content (or range)**	**CL, M-Factor, ATE**	**Contains**
Limonene	CAS No: 5989-27-5 EC No: 227-813-6	60-70%	Flam. Liq. 3 – H226 Skin Irrit. 2 – H315 Skin Sens. 1 – H317 Aquatic Acute. 1 – H400 Aquatic Chronic. 1- H410	May produce an allergic reaction.
Pinenes		12.5 -15%	Skin Sens. 1 – H317 Aquatic Acute. 1 – H400 Aquatic Chronic. 1- H410	May produce an allergic reaction.
g-Terpinene	CAS No: 99-85-4 EC No: 202-794-6	10-12.5%		
Citral	CAS No: 5392-40-5 EC No: 226-394-6	3-5%	Skin Irrit. 2 – H315 Skin Sens. 1 – H317	May produce an allergic reaction.

See Section 16 for full test of all Hazard Phrases, if present above.

4. First Aid Measures	
4.1 General	Immediately remove any clothing soiled by the product.

	First Aiders should wear protective equipment when assisting victim.
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 and present the safety data sheet. Do not give milk or fatty oils.
4.2 Most important symptoms and effects, both acute and delayed:	
	Skin Irritation. Erythema.
4.3 Indication of any immediate medical attention and special treatment need	In case of accident or feeling unwell, seek medical advice immediately (show directions for use or Safety Data Sheet if possible).
5. Firefighting Measures	
5.1 Extinguishing Media:	
Suitable extinguishing media:	Carbon dioxide (CO2) or dry chemical fire extinguishers.
Unsuitable extinguishing media:	Water jet.
5.2 Special hazards arising from the substances or mixture:	
Hazardous combustion products:	Do not inhale explosion and combustion gases. Burning produces heavy smoke. Vapours may form an explosive mixture with air. Container may explode in the heat of a fire. Cool the containers exposed to the fire with water.
5.3 Advice for firefighters	Move undamaged containers from immediate hazard area if it can be done safely. Use full face, self-contained breathing apparatus, and appropriate protective clothing.

6 Accidental release measures	
6.1 Personal precautions, protective equipment, and emergency procedures.	Remove all sources of ignition. Remove persons to safety. Use a mask, protective, solvent-resistant gloves, safety glasses and protective clothing. See protective measures under Section 7 and Section 8.
6.1.1 For non-emergency personnel	
Protective equipment:	
Emergency procedures:	
6.1.2 For Emergency responders	
6.2 Environmental precautions	Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and

	dispose of it following local legislation. In case of gas escape or of entry into waterways, soil, or drains, inform the responsible authorities if required. Eliminate all unguarded flames and possible sources of ignition. Do not smoke.
6.3 Methods for cleaning up – 6.3.1 For containment:	Suitable material for taking up: Dry and inert absorbing material (e.g., vermiculite, sand, earth). Wash with plenty of water. Rapidly recover the product.
6.3.2 For cleaning up:	
6.3.3. Other information:	
6.4 Reference to other sections	See also Section 8 and Section 13.

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. Avoid contact with skin and eyes, inhalation of vapours and mists. Don't use empty container before they have been cleaned. Before making transfer operations, ensure that there aren't any incompatible material residuals in the container.	
Measures to prevent fire:	Ground all equipment containing the material. Use spark-proof tools and explosion-proof equipment. Do not pressurise, cut, weld, solder or expose empty containers to heat, sparks, or open flames. Store in original container. See also section 8 for recommended protective equipment.
Measures to prevent aerosol and dust generation:	
Measures to protect the environment:	
Advice on general occupational hygiene:	Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working. Do not smoke while working.
7.2 Conditions for safe storage, including any incompatibilities	
Technical measures and storage conditions:	
Packaging Materials:	
Requirements for storage and vessels:	Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight. Cool and adequately ventilated.

Storage Class: Further information on storage containers:	
7.3 Specific end use(s).	None in particular.
Recommendations:	
Industrial sector specific solutions:	

8. Exposure controls/Personal protection:	
8.1 Control parameters	
Work /Hygiene Practices	Good personal hygiene practices should be used. Wash after any contact, before eating and at the end of the work period.
Results of OEL Exposure Assessment.	No data available.
8.2 Exposure controls	
Engineering Measures	Ensure good ventilation of working area.
8.2.2 Personal Protection equipment	
8.2.2.1 Eye / face protection	Not needed for normal use. Operate according to good working practices.
8.2.2.2 Skin Protection	Use clothing that provides comprehensive protection, e.g., cotton, rubber, PVC, or Viton.
Hand protection	Use protective gloves that provide comprehensive protection, e.g., P.V.C., neoprene or rubber.
Other skin protection	
8.2.2.3 Respiratory protection	Not needed under normal use in well ventilated areas.
Ventilation	
8.2.2.4 Thermal hazards	No data available.
8.2.3 Environmental exposure controls	No data available.
9. Physical and chemical properties- C of A	
9.1 Information on basic physical and chemical properties	
Colour	Light yellow to light greenish, yellow.
Appearance	Liquid
Odour	Characteristic of Lemon peels.
Odour Threshold	No data available.
Melting Point / freezing point	No data available.
Boiling point /Initial boiling point & boiling range	No data available.
Flammability (Solid, Gas)	No data available.
Lower and upper explosion limit	No data available.
Flash point	49°C (Pensky-Martens Open Cup Test (ASTM D93)).
Evaporation Rate	Not determined.
Auto- ignition temperature	No data available.
Decomposition temperature	No data available.

pH	Not determined.
Kinematic Viscosity	No data available.
Solubility in Water	Not determined.
Lipid Solubility	Not determined.
Partition coefficient n-octanol/ water (log value)	No data available.
Vapour Density	No data available.
Vapour Pressure	No data available.
Density and /or relative density	Not determined.
Relative vapour density	No data available.
Particle characteristics	
Explosive Properties	No data available.
Oxidising Properties	No data available.
9.2 Other information	No data available.
Specific gravity d_{20}^{20}	
Optical rotation @ 20^0C	
Refractive index @ 20^0 C	
Typical analysis of major components	

10. Stability and reactivity	
10.1 Reactivity	Stable under normal conditions.
10.2 Chemical Stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	Burning produces Carbon monoxide (CO) and/ or Carbon dioxide (CO2).
10.4 Conditions to avoid:	Stable under normal conditions of temperature and pressure. Avoid exposure to heat and flames.
10.5 Incompatible Materials:	Avoid contact with combustible materials. The product could catch fire.
10.6 Hazardous Decomposition Products	Burning produces Carbon monoxide (CO) and/ or Carbon dioxide (CO2)

11. Toxicological information		
11.1 Information on hazard classes as defined in Regulation (EC) No 1272 /2008		
Information on Toxicological Effects:		
Results of the Toxicological Assessment	**Limonene**	**LD50 Oral Rat = 4400 mg/kg** **LD50 Kin Rabbit = >2000 mg/kg**
	g- Terpinene	**LD50 Oral Rat =3650 mg/kg**
	Citral	**LD50 Skin Rabbit = 2250 mg/kg** **LD50 Skin Rat = >2000 mg/kg** **LD50 Oral Rat = 4950 mg/kg**
Acute toxicity:		
Skin corrosion /irritation:	No data available.	
Seriously eye damage/irritation:	No data available.	
Respiratory or skin sensitisation:	No known health effect for this element.	
Germ cell mutagenicity:	No known health effect for this element.	
Carcinogenicity:	No known health effect for this element.	

Reproductive toxicity:	No known health effect for this element.
Irritation	No known health effect for this element.
Corrosivity	No known health effect for this element.
Sensitisation	No data available.
Summary of evaluation of the CMR properties:	
STOT- single exposure,	No data available.
STOT-repeated exposure:	No data available.
Aspiration hazard:	No data available.
Information on likely Routes of Exposure	No data available.
Symptoms Related to the Physical, Chemical and Toxicological Characteristics	No data available.
Delayed and Immediate Effects; Chronic Effects from Short and Long-term Exposure	No data available.
Interactive Effects	No data available.

12. Ecological information	
12.1 Toxicity	Adopt good working practices, so that the product is not released into the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Results of Eco-Toxicological Assessment	No data available.
12.2 Persistency & degradability	No data available.
Results of Abiotic Degradation and Bio-degradation Assessment	No data available.
12.3 Bio accumulative potential	No data available.
Results of Bioconcentration Factor (BCF) Assessment	No data available.
Results of Partition Coefficient n-octanol/water (log KO/W) Assessment	No data available.
12.4 Mobility in soil	No data available.
12.5 Results of PBT and vPvB Assessment	No data available to conclude presence of PBT.
12.6 Endocrine disrupting properties	

12.7 Other adverse effects
List of components with Environmental Hazard Properties.

Quality	**Name**	**Identification Numbers**	**Environmental Hazards**

60-70%	Limonene	CAS: 5989-27-5 EC: 227-813-5	Very toxic to aquatic organisms, may cause long term adverse effects in aquatic environment.
12.5-15%	Pinenes		Very toxic to aquatic organisms, may cause long term adverse effects in aquatic environment.

13. Disposal considerations	
13.1 Waste treatment methods	Dispose of contents / containers 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		
14.1 UN Number or ID number	1169	
14.2 UN proper Shipping name	ADR	EXTRACTS, AROMATIC, LIQUID
	IATA	EXTRACTS, AROMATIC, LIQUID
	IMDG	EXTRACTS, AROMATIC, LIQUID
14.3 Transport hazard class(es)	ADR	Class 3
	IATA	Class 3
	IMDG	Class 3
14.4 Packing group	ADR+RID	Exempted for ADR: No. Label: N/A Packing Group: III Upper Number: 30 Tunnel Restriction Code: N/A
	IATA	Passenger Aircraft: 309 Cargo Aircraft: 310 Label: 3 Packing Group: III Sub Risk: N/A ERG: 3L Special Provisioning: N/A
	IMDG	Packing Group: III Stowage Code Category: A Stowage Note: N/A Sub Risk: N/A Special Provisioning; N/A Page: N/A Label: 3 EMS: F-E, S-D

	MFAG: N/A
14.5 Environmental hazards	Toxic Component Most Present: N/A Toxic Ingredients Quantity: 0.00 High Toxicity Ingredients Quantity: 0.00 Marine Pollutant: N/A Environmental Pollutant: N/A
14.6 Special precautions for user	Not determined.
14.7 Maritime transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not determined

15 Regulatory information

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

Dir. 67/548/EEC (Classification, Packaging and Labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure lime values): Dir. 2006/8/CE. Regulation EC No. 1907/2006 (REACH). Regulation EC No. 1272/2008 (CLP), Regulation EC No. 790/2009. Directive 2003/105/CE ('activities linked to risks of serious accidents') and subsequent amendments. WGK: 2: Hazard to waters.

15.2 Chemical Safety Assessment	Not relevant

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.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limiting Value for the Time Weighted Average 8-hour day. (ACGIH Standard).
STEL: Short Term Exposure Limit.
KSt: Explosion Coefficient.
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" (LATA)
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)
GefStoffVO: Ordnance on Hazardous Substances, Germany.
TWATLV: Threshold Limiting Value for the Time Weighted Average 8-hour day. (ACGIH Standard)
WGK: Water Hazard Class.

KSt; Explosion Coefficient.
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
STEL: Short Term Exposure Limit
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.