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: Mandarin Oil Green		
Substance name: Citrus Nobilis Peel Oil		
Biological Definition		
INCI Name		
Synonyms & Trade Names		
EC NO: 284-521-0	**CAS NO: 8008-31-9**	**EINECS CAS Number: 84929-38-4**
FEMA Number: 2657	**FDA Number:** 182.200	**CofE Number:**142n
Reach Registration No:	05-2114103817-52-0000	
1.2 Relevant identified uses of the substance or mixture and uses advised against		
Identified uses: Manufacturing		
Uses advised against: No data 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. 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. – H226	
	Human Health	Acute Toxicity – Oral. – H304	Skin Corr / Irrit. - H315
		Skin Sens. – H317	
	Environment	Aquatic Acute. – H410	
Adverse physicochemical, human health and environmental effects: No data available.			
2.2 Label Element Labelling according to Regulation (EC) No.1272/2008:			

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.
H412	Harmful 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/ containers in accordance with local/ regional/ national/ international regulations.		
Supplementary Precautionary Statements:			
2.3 Other hazards	None specified.		
– Results of PBT and vPvB According to Annex XIII	No data available to conclude presence of PBT.		
Adverse Physio-chemical Properties			
Adverse Effects on Human Health			

3. 1 Composition / information on ingredients:				
Chemical Characterisation		MANDARIN OIL GREEN		
EINECS CAS Number		84929-38-5		
CAS Number		8008-31-9		
EC Number		284-521-0		
Substance name	**Index number under CLP Annex VI**	**Weight % content (or range)**	**CL, M-Factor, ATE**	**Contains**
Limonene	CAS: 5989-27-5 EC: 227-813-5	70-80%	Flam. Liq. 3 – H226 Skin Corr/ Irrit. 2 – H315 Skin Sens. 1 – H317 Aquatic Acute. 1 – H400 Aquatic Chronic. 1- H410	May produce an allergic reaction.
g-Terpinene	CAS: 99-85-4 EC: 202-794-6	12.5-15%	Flam. Liq. 3 – H226 Acute Toxicity -Oral – 1 – H304	
Pinenes			Skin Sens. 1 – H317 Aquatic Acute. 1 – H400 Aquatic Chronic. 1 – H410	May produce an allergic reaction.
Myrcene	CAS: 123-35-3 EC: 204-622-5	1-3%	Aquatic Chronic. 3 – H412	

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. 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. 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:	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.
Hazardous combustion products:	
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	
6.1.1 For non-emergency personnel	
Protective equipment:	
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.
6.1.2 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: Avoid contact with skin and eyes, inhalation of vapours and mists.
Do not use empty container before they have been cleaned.
Before making transfer operations, assure that there are not any incompatible material residuals in the container.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working. Do not smoke while working.
Ground all equipment containing the material. Use spark-proof tools and explosion-proof equipment.
Do not pressurize, 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.

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.

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: Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible Materials	None in particular.
Technical measures and storage conditions:	
Packaging Materials:	

Requirements for storage and vessels:	Cool and adequately ventilated.
Storage Class: Further information on storage containers:	
7.3 Specific end use(s).	No further relevant information available.
Recommendations:	

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 to the skin, 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	Greenish yellow to reddish- orange.
Appearance	Liquid
Odour	Characteristic, recalling mandarin peel.
Odour Threshold	No data available.
Melting Point / freezing point	
Boiling point /Initial boiling point & boiling range	
Flammability (Solid, Gas)	No data available.
Lower and upper explosion limit	No data available.

Flash point ^{0}C	48°C
Evaporation Rate	No data available.
Auto- ignition temperature	No data available.
Decomposition temperature	No data available.
pH	Not determined
Kinematic Viscosity	No data available.
Solubility in Water	No data available.
Lipid Solubility	No data available.
Solubility in other Solvents	
Partition coefficient n-octanol/ water (log value)	No data available.
Vapour Pressure	No data available.
Density and /or relative density	No data available.
Relative vapour density	
Particle characteristics	
Explosive Properties	No data available.
Oxidising Properties	No data available.
Substance Group Relevant Properties	No data available.
Conductivity	No data available.
9.2 Other information	
Specific gravity d $_{20}$ ^{20}	
Optical rotation @ 20^{0}C	
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 and/or Carbon dioxide.
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		
Toxicological Information of the Main Substances in the Preparation	Limonene	LD50 Oral Rat = 4400mg/kg
		LD50 Skin Rabbit > 2000mg/kg
	g-Terpinene	LD50 Oral Rat = 3650mg/kg
Results of Skin / Eye Irritation Assessment	No data available.	
Results of STOT Exposure Assessment	No data available.	

Acute toxicity:	
Skin corrosion /irritation:	No known health effect for this element.
Seriously eye damage/irritation:	
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.
Summary of evaluation of the CMR properties:	
STOT- single exposure,	
STOT-repeated exposure:	
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 noctanol/Water (log KOW) 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	List of components with Environmental Hazard Properties:

Quantity	Name	Identity No.	Environmental Hazards.
70-80%	Limonene	CAS: 5989-27-5 EC: 227-813-5	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
3-5%	Pinenes		Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
1-3%	Myrcene	CAS: 123-35-3 EC: 204-622-5	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
12.7 Other adverse effects			

13. Disposal considerations	
13.1 Waste treatment methods	Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.
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:	Dispose of contents / containers in accordance with local/ regional/ national/ international regulations.

14. Transport information		
14.1 UN Number or ID number ADR, IATA, IMDG	1169	
14.2 UN proper Shipping name ADR, IATA, IMDG	EXTRACTS, AROMATIC, LIQUID	
14.3 Transport hazard class(es) ADR, IMDG, ICAO	3	
14.4 Packing group	ADR	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 MARPOL73/78 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

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:

CLP: Classification, Labelling, Packaging.
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" (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
INCI: International Nomenclature of Cosmetic Ingredients.
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GefStoffVO: Ordnance on Hazardous Substances, Germany.
LC50: Lethal concentration, 50 percent

LD50: Lethal Dose, 50 percent
TLV: Threshold Limiting Value
TWATLV: Threshold Limiting Value for the Time Weighted Average 8-hour day. (ACGIH Standard).
STEL: Short Term Exposure Limit.
WGK: German Water Hazard class.
KSt: Explosion Coefficient.
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**
(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.