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: Tarragon Oil France at 015		
Substance name:		
Biological Definition		
INCI Name	**Article Number:** AROUK243	
Synonyms & Trade Names		
EC NO: 290-356-5	**CAS NO:** 8016-88-4	**EINECS CAS Number:**
Index No:	**Reach Registration No:**	
1.2 Relevant identified uses of the substance or mixture and uses advised against		
Identified uses: Multi 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. 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. 4 – H227	
	Human Health	Muta. 2 – H341	Carc. 2 – H351
		Asp. Tox. 1 – H304	Acute Tox. 4 – H302
		Skin Irrit. 2 – H315	Skin Sens. 1 – H317
	Environment	Aquatic Acute. 2 – H401	Aquatic Chronic. 3 – H412

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

Label Elements – GHS label elements: The substance is classified and labelled according to the Globally Harmonised System (GHS)

Signal Word. DANGER

Hazard-determining components of labelling:
Estragole
Ocimene
d-limonene

alpha-Pinene Eugenol			
Hazard statements.			
H226	Flammable liquid and vapour	H227	Combustible liquid
H302	Harmful if swallowed	H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways	H315	Causes skin irritation
H316	Causes mild skin irritation	H317	May cause an allergic skin reaction
H319	Causes serious eye irritation.	H341	Suspected of causing genetic defects
H351	Suspected of causing cancer	H400	Very toxic to aquatic life
H401	Toxic to aquatic life	H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.	H412	Harmful to aquatic life with long lasting effects
Precautionary statements.			
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor		
P330	Rinse mouth		
P331	Do NOT induce vomiting		
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: Substances **CAS No. Description** 8016-88-4 tarragon oil **Identification Number (S)** **EC number:** 290-356-5			
. hazardous components:			
Substance name	**Index number under CLP Annex VI**	**Weight % content (or range)**	**CL, M-Factor, ATE**
Estragole	CAS: 140-67-0	50-90%	Muta. 2 – H341

	EINECS: 205-427-8		Carc. 2 – H351 Acute Tox. 4 - H302 Skin Irrit. 2 – H315 Skin Sens. 1B – H317 Flam. Liq. 4 - H227 Aquatic Acute. 2 – H401 Aquatic Chronic. 3 – H412 Specific concentration limits: Muta. 2; H341: C ≥ 1% Carc. 2; H351: C ≥ 1%
Ocimene	CAS: 13877-91-3 EINECS: 237-641-2	10-25%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Skin Irrit. 2, H315 Acute Tox. 5, H303
d-limonene	CAS: 5989-27-5 EINECS: 227-813-5	1-10%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
alpha-Pinene	CAS: 80-56-8 EINECS: 201-291-9	≥1%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317
Methyl eugenol natural	CAS: 93-15-2 EINECS: 202-223-0	≥1%	Muta. 2, H341 Carc. 2, H351 Acute Tox. 4, H302 Aquatic Acute 2, H401 Specific concentration limits: Muta. 2; H341: C ≥1 % Carc. 2; H351: C ≥1 %
Eugenol	CAS: 97-53-0 EINECS: 202-589-1	≥1%	Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Acute Tox. 5, H303 Skin Corr. 3, H316 Aquatic Acute 2, H401

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:	CO2, powder, or water spray. Fight larger fires with 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:	Carbon monoxide (CO)
5.3 Advice for firefighters	No special measures required.

6 Accidental release measures	
6.1 Personal precautions, protective equipment, and emergency procedures	
6.1.1 For non-emergency personnel	
Protective equipment:	Wear protective equipment. Keep unprotected persons away
Emergency procedures:	
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 – 6.3.1 For containment:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
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. 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:	Not required
Additional information	The lists valid during the making were used as basis.
8.2 Exposure controls	
8.2.2 Personal Protection equipment	
General protective and hygiene 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.
8.2.2.1 Eye / face protection	Avoid contact with the eyes and skin. Goggles recommended during refilling
8.2.2.2 Skin Protection	Avoid contact with the skin
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. **Material of gloves** Nitrile rubber, NBR 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. **Penetration time of glove material** 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):	67°C
Auto- ignition temperature	Not applicable
Decomposition temperature	Not applicable
pH	
Kinematic Viscosity	
Solubility in / Miscibility with Water Other information	Not miscible or difficult to mix No further relevant information available.
Solubility in other Solvents	
Partition coefficient n-octanol/ water (log value)	
Vapour Pressure	Not determined.
Density: Relative density at 20°C Evaporation rate	 0.918 – 0.943 Not determined
Relative vapour density	
Particle characteristics	
Explosive Properties	Not determined.
Oxidising Properties	
9.2 Other information	
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	No further relevant information available
10.2 Chemical Stability	
Thermal decomposition / conditions to be avoided:	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:		
Oral	LD50	1,770 mg/kg (RAT)
140-67-0 Estragole		
Oral	LD50	1,230 mg/kg (rat) (fixed dose procedure)
13877-91-3 Ocimene		
Oral	LD50	5,000 mg/kg (rat)
80-56-8 alpha-Pinene		
Oral	LD50 Acute Toxicity Estimate (ATE)	500 mg/kg (ATE) 500 mg/kg (RAT)
93-15-2 Methyl eugenol natural		
Oral	LD50	1,180 mg/kg (RAT) (acute toxic class method)

Skin corrosion /irritation:	Irritant to skin and mucous membranes.
Seriously eye damage/irritation:	
Respiratory or skin sensitisation:	Sensitisation possible through skin contact.
Germ cell mutagenicity:	Muta.2
Carcinogenicity:	Carc. 2
Reproductive toxicity:	
Summary of evaluation of the CMR properties:	
STOT- single exposure,	
STOT-repeated exposure:	
Aspiration hazard:	

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.
Ecotoxical effects: **Remark:** **Additional ecological information:** **General notes:**	Harmful to fish. Do not allow product to reach ground water, water course or sewage system.

	Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms
12.5 Results of PBT and vPvB Assessment	PBT: Not applicable vPvB: 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 dispose of with household rubbish. 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 / contain in accordance with local / regional / national / international regulations.

14. Transport information	
14.1 UN Number or ID number ADR, IMDG, IATA	Void
14.2 UN proper Shipping name ADR, IMDG, IATA	Void
14.3 Transport hazard class(es) ADR, ADN, IMDG, ICAO . Class	Void
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards: . Marine pollutant	No
14.6 Special precautions for user	Not applicable
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
Transport / Additional information	Not dangerous according to the above specifications.
ADR Remarks	Not dangerous
AND Remarks	Not dangerous
IMDG Remarks	Not dangerous
IATA Remarks	Not dangerous
UN "Model Regulation"	Void

15 Regulatory information

15.1 Safety, health, and environmental regulations / legislation specific for the substance or mixture	
Directive 2012 /18 / EU	**Named dangerous substances - ANNEX I** Substance is not listed.
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'.

Department issuing SDS: Department Essential Oils
Contact: Charlene BRU

(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**
(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.