

Certificate of Analysis

PRODUCT DETAILS					
Product Name	PENNYROYAL OIL				
Product Code	OEPENN				
Batch Number	4316003				
Best Before End	Mar-21				
Identification	CAS No: 80064-00-9	EINECS No: 290-061-1			
	Alternative Cas: 8013-99-8	FEMA No: 2839			
PHYSICAL AND CHEMICAL CHARACTERISTIC					
	SPECIFICATION RANGE			RESULTS	
Appearance	Liquid			Conforms	
Colour	Colourless to pale yellow			Conforms	
Odour	Grass, minty			Conforms	
Relative Density @ 20°C	0.930 - 0.944			Conforms	
Refractive Index @ 20°C	1.480 - 1.492			Conforms	
Flash Point °C	>75°C			Conforms	
Optical Rotation °	+15 to +24			Conforms	
Solubilities	Insoluble in water			Conforms	
Pulegone content	Min 80%			Conforms	
MAIN CONSTITUENTS					
CONSTITUENT RANGE	RESULTS	CONSTITUENT RANGE	RESULTS	CONSTITUENT RANGE	RESULTS
Pulegone >80%	83.80%	Isopulegone 1-5%	1.85%	Limonene 0.01 - 5%	0.95%
STORAGE AND SHELF LIFE					
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.				

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SAFETY DATA SHEET

PENNYROYAL ESSENTIAL OIL

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	PENNYROYAL OIL
Product number	PENNYR1000
Synonyms; trade names	Mentha Pulegium L
CAS number	90064-00-9
Alternative Cas Number	8013-99-8
EC number	290-061-1
FEMA No:	2839

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Industrial, only for professional use
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1.3. Details of the supplier of the safety data sheet

Supplier

Madar Corporation
19-20 Sandleheath Industrial Estate,
Fordingbridge,
Hampshire,
SP6 1PA,
UK
Tel: 01425 655555
Email: sales@madarcorporation.co.uk

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Skin Sens. 1 - H317
Environmental hazards	Aquatic Chronic 3 - H412
Human health	Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction.
Environmental	Harmful to aquatic life with long lasting effects.

2.2. Label elements

EC number	290-061-1
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Pictogram



Signal word

Warning

Hazard statements

H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing vapour/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P321 Specific treatment (see medical advice on this label).
 P330 Rinse mouth.
 P332+P313 If skin irritation occurs: Get medical advice/ attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

Pulegone, Isopulegone, (S)-p-mentha-1,8-diene

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Pulegone	>80%
CAS number: 89-82-7	EC number: 201-943-2
Classification	
Acute Tox. 4 - H302	
Isopulegone	1-5%
CAS number: 57129-09-6	
Classification	
Acute Tox. 4 - H302	

(S)-p-mentha-1,8-diene		1-5%
CAS number: 5989-54-8	EC number: 227-815-6	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. If in doubt, get medical attention promptly.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	For safety reasons do not use full water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards	May produce Carbon Monoxide and other unidentified organic compounds
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5.3. Advice for firefighters

Protective actions during firefighting	Containers close to fire should be removed or cooled with water.
Special protective equipment for firefighters	Wear full protective clothing

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Provide adequate ventilation.
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6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Cover with inert, inorganic, non-combustible material (e.g dry-lime, sand, soda ash). Place in covered containers and dispose of in accordance with local authority guidelines.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash contaminated skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a well-ventilated place.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Protective equipment



Personal protection

Slip proof shoes may be worn in event of spillage.

Eye/face protection

Approved safety goggles.

Hand protection

Chemical resistant gloves (PVC)

Other skin and body protection

Wear apron or protective clothing in case of contact.

Hygiene measures

Good personal hygiene procedures should be implemented.

Respiratory protection

Generally unnecessary in a well ventilated area.
If ventilation is insufficient, respiratory protection must be worn.

Environmental exposure controls

Avoid discharging into drains.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Liquid.

Colour

Colourless to pale yellow.

Odour

Grass, minty

Flash point

>75°C

Relative density

0.930 - 0.944 @ 20°C

Solubility(ies)

Insoluble in water.

9.2. Other information

Refractive index 1.480 - 1.492 @ 20°C

Optical Rotation +15 to +24

Hydrocarbon Content

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No data available.

10.2. Chemical stability

Stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No data available.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat sources, open flames and sunlight.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

ATE oral (mg/kg) 574.38

SECTION 12: Ecological Information

Ecotoxicity Toxic to aquatic life with long lasting effects.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name Not

applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance CHIP for everyone HSG228.

15.2. Chemical safety assessment

SECTION 16: Other information

Revision date	10/08/2017
Revision	1
SDS number	5010
Hazard statements in full	H226 Flammable liquid and vapour. H302 Harmful if swallowed. 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.

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Product Specification

Issue No: 3

21/08/2017

PRODUCT DETAILS		
Product Name	PENNYROYAL OIL	
Product Code	OEPENN	
Country of Origin	Morocco	
Tariff Number	33012510	
INCI Name	Mentha Pulegium L	
Natural Status	We hereby declare, to the best of our knowledge and from information received from our supplier, that this product is in accordance to the requirements of Articles 3 (2) (d) of Regulation (EC) 1334/2008 and therefore can be designated as natural.	
Food Grade Status	We confirm, from information received from our supplier, that this product conforms with EU Regulations and can be used in food.	
Kosher Certified	Yes	
Halal Certified	We hereby delcare, from information received from our supplier, that this product does not contain any ingredient derived from animal origin, extracted from hair or feathers, animal fats, animal extracts, blood of any origin, blood plasma, pork and/or other meat products. This product does not contain alcohol (ethanol or grain alcohol) and has not been used in the manufacturing process.	
GMO Declaration	To the best of our knowledge and from information received from our supplier, this product does not derive from genetically modified starting raw material, or additives that are derived from genetically modified organisms.	
Manufacturing Process	Steam distillation of the flowers and leaves of the wild plant Mentha Pulegium L.	
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	Alternative Cas: 8013-99-8	FEMA No: 2839
PHYSICAL AND CHEMICAL CHARACTERISTIC		
Appearance	Liquid	
Colour	Colourless to pale yellow	
Odour	Grass, minty	
Relative Density @ 20°C	0.930 - 0.944	
Refractive Index @ 20°C	1.480 - 1.492	
Flash Point °C	>75°C	
Optical Rotation °	+15 to +24	
Solubilities	Insoluble in water	
Pulegone content	Min 80%	
FRAGRANCE ALLERGENS		
Linalool (78-70-6) <1%		
FOOD ALLERGENS		
NONE PRESENT		
IFRA		
trans-2-hexanal (6728-26-3) <0.10%		
STORAGE AND SHELF LIFE		
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry	
Shelf Life	12 months unopened and stored as above.	

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