

Certificate of Analysis

PRODUCT DETAILS

Product Name	MELISSA OIL 100% PURE & NATURAL
Product Code	MELISS1001
Tariff Number	33019010
Country of Origin	Bulgaria

Expiry Date	February 2022
Batch/Lot Number	4350106
Our Reference	SO-13838

Identification	CAS No: 84082-61-1	EC No: 282-007-0
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PHYSICAL AND CHEMICAL CHARACTERISTIC

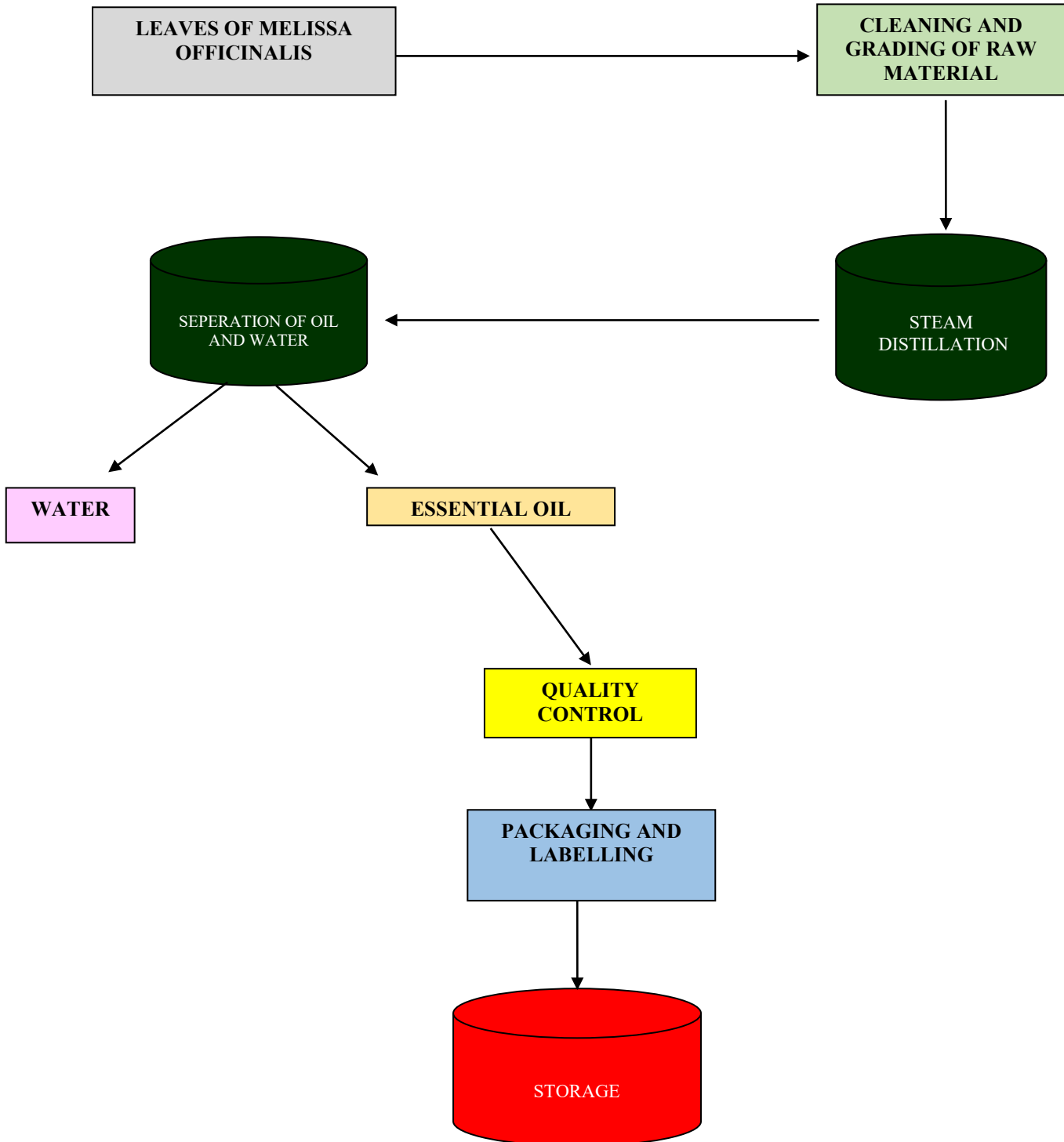
	SPECIFICATION RANGE	RESULTS
Appearance	Liquid	Conforms
Colour	Pale yellow to yellow	Conforms
Odour	Citrus, lemon, herbal, floral	Conforms
Relative Density @ 20°C (g.cm ³)	0.8840- 0.8940	0.8878
Refractive Index @ 20°C	1.4760 - 1.4850	1.4811
Flash Point °C	>85°C	Conforms

STORAGE AND SHELF LIFE

Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.
Shelf Life	24 months (unopened, original containers stored as above)

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MELISSA LEAF OIL FLOW CHART





SAFETY DATA SHEET MELISSA OIL BLEND

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

1.1. Product identifier

Product name MELISSA OIL BLEND

Product number MELISS1000

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

Identified uses Concentrated material for manufacturing purposes only.

1.3. Details of the supplier of the safety data sheet

Supplier

Madar Corporation Limited
19 - 20 Sandleheath Industrial Estate
Fordingbridge
Hampshire
SP6 1PA
Tel. +44 1425 655555 Opening Hours 9am - 5pm)
e-mail technical@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 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Carc. 2 - H351 Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 2 - H411

Human health May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer.

Environmental Toxic to aquatic life with long lasting effects.

2.2. Label elements

Pictogram



Signal word

Danger

MELISSA OIL BLEND

Hazard statements	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H351 Suspected of causing cancer. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P261 Avoid breathing vapour/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P262 Do not get in eyes, on skin, or on clothing.
Contains	Citral, Beta Caryophyllene, Citronellal, Geranyl Acetate, Citronellol, Geraniol, Nerol, trans-cimene
Supplementary precautionary statements	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P308+P313 IF exposed or concerned: Get medical advice/ attention. P321 Specific treatment (see medical advice on this label). P331 Do NOT induce vomiting. 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. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Citral	>=25%
CAS number: 5392-40-5	EC number: 226-394-6
Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317	
Beta Caryophyllene	>=10 - <25%
CAS number: 87-44-5	EC number: 201-746-1
Classification Skin Sens. 1B - H317 Asp. Tox. 1 - H304	

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Citronellal	>=5 - <10%
CAS number: 106-23-0	EC number: 203-376-6
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Geranyl Acetate	>=5 - <10%
CAS number: 105-87-3	EC number: 203-341-5
Classification	
Skin Irrit. 2 - H315	
Skin Sens. 1B - H317	
Aquatic Chronic 3 - H412	
Geraniol	>=3 - <5%
CAS number: 106-24-1	EC number: 203-377-1
Classification	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Citronellol	>=3 - <5%
CAS number: 106-22-9	EC number: 203-375-0
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
6-Methyl-5-hepten-2-one	>=3 - <5%
CAS number: 110-93-0	EC number: 203-816-7
Classification	
Flam. Liq. 3 - H226	
Linalool	>=1 - <3%
CAS number: 78-70-6	EC number: 201-134-4
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	

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trans-ocimene	>=1 - <3%
CAS number: 13877-91-3	EC number: 237-641-2
Classification	
Flam. Liq. 3 - H226	
Asp. Tox. 1 - H304	
Nerol	>=1 - <3%
CAS number: 106-25-2	EC number: 203-378-7
Classification	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	

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 affected person from source of contamination. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly with water. Get medical attention immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Wash with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.

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

General information	No further information available at this time.
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4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use foam, carbon dioxide or dry powder to extinguish.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

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

Protective actions during firefighting	Wear protective clothing. Avoid inhalation of vapours.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Keep away from heat sources, open flames and sunlight. Avoid inhalation of vapours. Provide adequate ventilation. Avoid contact with skin and eyes.
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6.2. Environmental precautions

BiOrigins, 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK

Tel: 01425 655555 Email: technical@madarcorporation.co.uk

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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 Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations. If spillage on water occurs, remove from the surface with suitable absorbent material. Dispose according to National and international Environmental regulations.

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 inhalation of vapours/spray and contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Citral (CAS: 5392-40-5)

DNEL	Workers - Dermal; Long term systemic effects: 1.7 mg/kg Workers - Inhalation; Long term systemic effects: 9 mg/m ³ General population - Oral; Long term systemic effects: 0.6 mg/kg General population - Dermal; Long term systemic effects: 1 mg/kg General population - Inhalation; Long term systemic effects: 2.7 mg/m ³
PNEC	- STP; 1.6 mg/l - Soil; 0.0209 mg/kg - Intermittent release; 0.0678 mg/l - Fresh water; 0.00678 mg/l - Marine water; 0.000678 mg/l - Sediment (Freshwater); 0.125 mg/kg - Sediment (Marinewater); 0.0125 mg/kg

Citronellal (CAS: 106-23-0)

DNEL	Workers - Inhalation; Long term systemic effects: 9 mg/m ³ Workers - Dermal; Long term systemic effects: 1.7 mg/kg, bw/day Workers - Dermal; Long term local effects: 140 mg/cm ² General population - Inhalation; Long term systemic effects: 2.7 mg/m ³ General population - Dermal; Long term systemic effects: 1 mg/kg, bw/day General population - Dermal; Long term local effects: 140 mg/cm ² General population - Oral; Long term systemic effects: 0.6 bw/day, mg/kg
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- PNEC**
- Fresh water; Short term 0.009 mg/l
 - Intermittent release, Fresh water; 0.087 mg/l
 - Marine water; Short term 0.001 mg/l
 - STP; Short term 4 mg/l
 - Sediment (Freshwater); Short term 0.159 mg/kg
 - Sediment (Marinewater); Short term 0.016 mg/kg
 - Soil; Short term 0.027 mg/kg

Geranyl Acetate (CAS: 105-87-3)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 62.59 mg/m³
 - Workers - Dermal; Long term systemic effects: 35.5 bw/day, mg/kg
 - General population - Inhalation; Long term systemic effects: 15.4 mg/m³
 - General population - Dermal; Long term systemic effects: 17.75 bw/day, mg/kg
 - General population - Oral; Long term systemic effects: 8.9 mg/kg, bw/day

- PNEC**
- Fresh water; Short term 3.72 mg/l
 - Intermittent release, Fresh water; 37.2 mg/l
 - Marine water; Short term 0.372 mg/l
 - STP; Short term 8 mg/l
 - Sediment (Freshwater); Short term 0.442 mg/kg
 - Sediment (Marinewater); Short term 0.044 mg/kg
 - Soil; Short term 0.086 mg/kg

Citronellol (CAS: 106-22-9)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 161.6 mg/m³
 - Workers - Inhalation; Long term local effects: 10 mg/m³
 - Workers - Inhalation; Short term local effects: 10 mg/m³
 - Workers - Dermal; Long term systemic effects: 327.4 mg/kg, bw/day
 - Workers - Dermal; Short term local effects: 2.950 mg/cm²
 - General population - Inhalation; Long term systemic effects: 47.8 mg/m³
 - General population - Inhalation; Long term local effects: 10 mg/m³
 - General population - Inhalation; Short term local effects: 10 mg/m³
 - General population - Dermal; Long term systemic effects: 196.4 bw/day, mg/kg
 - General population - Dermal; Short term local effects: 2.950 mg/cm²
 - General population - Oral; Long term systemic effects: 13.8 mg/kg, bw/day

- PNEC**
- Fresh water; Short term 0.002 mg/l
 - Fresh water, Intermittent release; Short term 0.024 mg/l
 - Marine water; Short term 0 mg/l
 - STP; Short term 580 mg/l
 - Sediment (Freshwater); Short term 0.026 mg/kg
 - Sediment (Marinewater); Short term 0.003 mg/kg
 - Soil; Short term 0.004 mg/kg

Geraniol (CAS: 106-24-1)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 161.6 mg/m³
 - Workers - Dermal; Long term systemic effects: 12.5 mg/kg, bw/day
 - General population - Inhalation; Long term systemic effects: 47.8 mg/m³
 - General population - Dermal; Long term systemic effects: 7.5 mg/kg, bw/day
 - General population - Oral; Long term systemic effects: 13.75 bw/day, mg/kg

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PNEC	- Fresh water; Short term 0.011 mg/l
	- Intermittent release, Fresh water; 0.108 mg/l
	- Marine water; Short term 0.001 mg/l
	- STP; Short term 0.7 mg/l
	- Sediment (Freshwater); Short term 0.115 mg/kg
	- Sediment (Marinewater); Short term 0.011 mg/kg
	- Soil; Short term 0.017 mg/kg

Linalool (CAS: 78-70-6)

DNEL	Workers - Dermal; Short term systemic effects: 5 mg/kg
	Workers - Inhalation; Short term systemic effects: 16.5 mg/m ³
	Workers - Dermal; Long term systemic effects: 2.5 mg/kg
	Workers - Inhalation; Long term systemic effects: 2.8 mg/m ³
	General population - Oral; Short term systemic effects: 1.5 mg/kg
	General population - Dermal; Short term systemic effects: 2.5 mg/kg
	General population - Inhalation; Short term systemic effects: 4.1 mg/m ³
	General population - Oral; Long term systemic effects: 0.2 mg/kg
	General population - Dermal; Long term systemic effects: 1.25 mg/kg
	General population - Inhalation; Long term systemic effects: 0.7 mg/m ³

PNEC	- STP; Short term 10 mg/l
	- Soil; Short term 0.327 mg/kg
	- Intermittent release; Short term 2 mg/l
	- Fresh water; Short term 0.2 mg/l
	- Marine water; Short term 0.02 mg/l
	- Sediment (Freshwater); Short term 2.22 mg/kg
	- Sediment (Marinewater); Short term 0.222 mg/kg

8.2. Exposure controls

Protective equipment



Personal protection	Slip proof shoes may be worn in event of spillage.
Eye/face protection	Chemical splash goggles or face shield.
Hand protection	Chemical resistant gloves (PVC)
Other skin and body protection	Wear protective clothing.
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.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Pale yellow to yellow
Odour	Citrus. Lemon. Herbal Floral.

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Flash point >85°C
Relative density 0.8840 - 0.8940 @ 20°C

9.2. Other information

Refractive index 1.4760 - 1.4850 @ 20°C

Hydrocarbon Content

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Not determined.

10.2. Chemical stability

Stability Not determined.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid Highly reactive chemicals which may produce unknown reaction products and so cause additional hazards.

10.6. Hazardous decomposition products

Hazardous decomposition products Not determined.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No data available.

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

Bioaccumulative potential No data available.

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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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

14.1. UN number

UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN No. (ADN)	3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-A, S-F
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ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL 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

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date	03/07/2017
Revision	1
SDS number	4974
Hazard statements in full	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. H318 Causes serious eye damage. H319 Causes serious eye irritation. H351 Suspected of causing cancer. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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Product Specification

PRODUCT DETAILS		
Product Name	MELISSA OIL 100% PURE & NATURAL	
Product Code		
Tariff Number	33019010	
Country of Origin	Bulgaria	
INCI Name	Melissa Officinalis Leaf Oil	
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. This product does not contain any solvents or additives.	
Food Grade Status	Not Applicable	
Kosher Certified	Suitable	
Halal Certified	Suitable	
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	
Identification	CAS No: 84082-61-1	EC No: 282-007-0
	Alternate CAS No: 8014-71-9	FEMA: 2112
PHYSICAL AND CHEMICAL CHARACTERISTIC		
Appearance	Liquid	
Colour	Pale Yellow to Yellow	
Odour	Characteristic, Sweet, Herbal	
Relative Density @ 20°C	0.885 - 0.905	
Refractive Index @ 20°C	1.475 - 1.495	
Flash Point °C	≥78	
Optical Rotation °	-40 to 0	
FRAGRANCE ALLERGENS		
Limonene (5989-27-5) <1%	Linalool (78-70-6) <1%	Citral (5392-40-5) 10-30%
Citronellol (106-22-9) <1%	Geraniol (106-24-1) <1%	Eugenol (97-53-0) <1%
Benzyl Benzoate (120-51-4) <1%		
FOOD ALLERGENS		
NONE PRESENT		
IFRA		
Benzyl Benzoate (120-51-4) <1%	Geraniol (106-24-1) <1%	Citral (5392-40-5) 10-30%
Melissa Officinalis L.	1-Octen-3-yl Acetate (2442-10-6) <1%	Eugenol (97-53-0) <1%
STORAGE AND SHELF LIFE		
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.	
Shelf Life	24 Months unopened and stored as above.	

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Vegan and Vegetarian Statement

IDENTIFICATION	
Product:	MELISSA OIL 100% P & N (MELISS1001)
Cas No:	84082-61-1 / 8014-71-9
EINECS No:	282-007-0
STATEMENT	
<p>We, Madar Corporation Limited, from information received from our supplier, hereby declare that the material listed above is suitable for the following:</p> <p>Vegans (Excludes all animal derived products, including dairy, eggs, leather, bee products (beeswax and honey).</p> <p>Lacto Vegetarians (Same as vegan but allows milk products and bee products.</p> <p>Ovo Vegetarians (Same as vegan but allows egg products and bee products)</p> <p>It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.</p> <p>23rd December 2019</p> <p>This document represents to the best of our knowledge and from information received from our supplier. It does not release the buyer from the obligation to carry out an examination of the goods received. All uses made by the buyer are done under their own responsibility.</p>	