Certificate of Analysis

PRODUCT DETAILS		
Product Name	**SPEARMINT OIL ORGANIC**	
Product Code	OCSPEA	
Tariff Number	33012510	
Country of Origin	India	
Batch Number	4353305	
Best Before End	March 2022	
Identification	CAS No: 84696-51-5	EC No: 283-656-2
	Alternate CAS: 8008-79-5	FEMA: 3032

PHYSICAL AND CHEMICAL CHARACTERISTIC		
	SPECIFICATION RANGE	**RESULTS**
Appearance	Liquid	Conforms
Colour	Colourless to Pale Yellow	Conforms
Odour	Characteristic odour of Spearmint	Conforms
Relative Density @ 25°C	0.910 - 0.953	0.9236
Refractive Index @ 20°C	1.480 - 1.498	1.4872
Flash Point °C	≥63	Conforms
Optical Rotation°	-48 to -65	-59.3
HEAVY METALS		
Arsenic	<3ppm	Conforms
Lead	<3ppm	Conforms
Cadmium	<1ppm	Conforms
Mercury	<0.1ppm	Conforms

MAIN CONSTITUENTS					
CONSTITUENT RANGE	**RESULT**	**CONSTITUENT RANGE**	**RESULT**	**CONSTITUENT RANGE**	**RESULT**
L-Carvone **50-85%**	**59.60%**	Limonene **21-35%**	**22.60%**	Octan-3-ol **0.01-3.5%**	**NA**
1,8-Cineole **0.01-4.5%**	**1.60%**	Myrcene **0.01-4%**	**NA**	A Pinene **0.01-3%**	**NA**
B Pinene **0.01-3%**	**NA**	Sab Hydrate	**0.40%**	germ-d	**0.70%**

STORAGE AND SHELF LIFE	
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.

SAFETY DATA SHEET
SPEARMINT OIL ORGANIC

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

1.1. Product identifier

Product name	SPEARMINT OIL ORGANIC
Product number	OCSPEA
Synonyms; trade names	Mentha Spicata Oil
CAS number	84696-51-5
Alternative Cas Number	8008-79-5
EC number	283-656-2
FEMA No:	3032

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

Identified uses	Industrial, only for professional use

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 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	Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304
Environmental hazards	Aquatic Chronic 2 - H411

2.2. Label elements

EC number 283-656-2

Hazard pictograms

Signal word Danger

SPEARMINT OIL ORGANIC

Hazard statements	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. H304 May be fatal if swallowed and enters airways.
Precautionary statements	P261 Avoid breathing vapour/ spray. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.
Contains	L-CARVONE, (S)-p-mentha-1,8-diene, 1, 8 cineole, 7-methyl-3-methyleneocta-1,6-diene, Alpha Pinene, Beta Pinene
Supplementary precautionary statements	P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P302+P352 IF ON SKIN: Wash with plenty of water. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P405 Store locked up.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

L-CARVONE **50-85%**

CAS number: 6485-40-1 EC number: 229-352-5

Classification
Skin Sens. 1B - H317

(S)-p-mentha-1,8-diene **21-35%**

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

octan-3-ol **0.01-3.5%**

CAS number: 589-98-0 EC number: 209-667-4

Classification
Eye Irrit. 2 - H319

SPEARMINT OIL ORGANIC

1, 8 cineole	**0.01-4.5%**
CAS number: 470-82-6	EC number: 207-431-5

Classification
Flam. Liq. 3 - H226
Skin Sens. 1B - H317

7-methyl-3-methyleneocta-1,6-diene	**0.01-4%**
CAS number: 123-35-3	EC number: 204-622-5

Classification
Flam. Liq. 3 - H226
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Asp. Tox. 1 - H304
Aquatic Chronic 3 - H412

Alpha Pinene	**0.01-3%**
CAS number: 80-56-8	EC number: 201-291-9
M factor (Acute) = 1	M factor (Chronic) = 1

Classification
Flam. Liq. 3 - H226
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
Asp. Tox. 1 - H304
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

Beta Pinene	**0.01-3%**
CAS number: 127-91-3	EC number: 242-060-2
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.

Ingestion Rinse mouth thoroughly with water. Aspiration hazard if swallowed. Get medical attention.

SPEARMINT OIL ORGANIC

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 10 minutes. Get medical attention.

Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Get medical attention if any discomfort continues.

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

General information No further information available at this time.

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

Specific treatments Persons with pre-existing skin, eye or respiratory disease may be at increased risk from the irritant or allergic properties of this material. Attending physician should treat exposed patients symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use alcohol-resistant foam, carbon dioxide or dry powder to extinguish.

Unsuitable extinguishing media For safety reasons do not use full water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards No data available.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours.

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. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Follow safety measures as mentioned in sections "handling and storage" and "exposure controls/personal protection".

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 Eliminate all sources of ignition. Absorb with liquid binding material (e.g sand, diatomaceous earth, acid or universal binding agents). Collect in closed and suitable containers for disposal. Wash spill site after material pick up is complete.

6.4. Reference to other sections

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. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Provide adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Wash skin thoroughly after handling.

SPEARMINT OIL ORGANIC

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.

7.3. Specific end use(s)

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

1, 8 cineole (CAS: 470-82-6)

DNEL

Workers - Inhalation; Long term systemic effects: 7.05 mg/m³
Workers - Dermal; Long term systemic effects: 2 mg/kg, bw/day
General population - Inhalation; Long term systemic effects: 1.74 mg/m³
General population - Dermal; Long term systemic effects: 1 bw/day, mg/kg
General population - Oral; Long term systemic effects: 600 bw/day, mg/kg

PNEC

- Fresh water; Short term 5.7 mg/l
- Intermittent release, Fresh water; 0.57 mg/l
- marine water; Short term 5.7 mg/l
- STP; Short term 10 mg/l
- Sediment (Freshwater); Short term 1.425 mg/kg
- Sediment (Marinewater); Short term 0.142 mg/kg
- Soil; Short term 0.25 mg/kg

7-methyl-3-methyleneocta-1,6-diene (CAS: 123-35-3)

DNEL

Workers - Dermal; Long term systemic effects: 0.83 mg/kg
Workers - Inhalation; Long term systemic effects: 5.83 mg/m³
General population - Dermal; Long term systemic effects: 0.42 mg/kg
General population - Inhalation; Long term systemic effects: 1.25 mg/m³

PNEC

- STP; 0.2 mg/l
- Soil; 1.015 mg/kg
- Fresh water; 0.00028 mg/l
- marine water; 0.0008 mg/l
- Sediment (Freshwater); 5.022 mg/kg
- Sediment (Marinewater); 0.502 mg/kg

Alpha Pinene (CAS: 80-56-8)

DNEL

Workers - Inhalation; Long term systemic effects: 3.8 mg/m³
Workers - Dermal; Long term systemic effects: 0.54 mg/kg, bw/day
General population - Inhalation; Long term systemic effects: 0.67 mg/m³
General population - Dermal; Long term systemic effects: 0.19 mg/kg, bw/day
General population - Oral; Long term systemic effects: 0.19 mg/kg, bw/day

PNEC

- Fresh water; Short term 0.606 mg/l
- Fresh water, Intermittent release; 3.03 mg/l
- marine water; Short term 0.061 mg/l
- Intermittent release, marine water; 0.303 mg/l
- STP; Short term 0.2 mg/l
- Sediment (Freshwater); Short term 157 mg/kg
- Sediment (Marinewater); Short term 15.7 mg/kg
- Soil; Short term 31.7 mg/kg

SPEARMINT OIL ORGANIC

Beta Pinene (CAS: 127-91-3)

DNEL	Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ Workers - Dermal; Long term systemic effects: 0.8 mg/kg, bw/day General population - Inhalation; Long term systemic effects: 1 mg/m³ General population - Dermal; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 mg/kg, bw/day
PNEC	- Fresh water; Short term 1.004 mg/l - Intermittent release, Fresh water; 5.02 mg/l - marine water; Short term 0.1 mg/l - STP; Short term 3.26 mg/l - Sediment (Freshwater); Short term 0.337 mg/kg - Sediment (Marinewater); Short term 0.034 mg/kg - Soil; Short term 0.067 mg/kg

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide eyewash station Provide adequate ventilation.
Personal protection	Use personal protection according to Directive 89/686/EEC
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	Characteristic odour of Spearmint
Flash point	> 63°C
Relative density	0.910 - 0.953 @ 25°C

9.2. Other information

Refractive index	1.480 - 1.498 @ 20°C
Optical Rotation	-48 to -65
Hydrocarbon Content	

SPEARMINT OIL ORGANIC

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No hazardous reactions if stored and handled as prescribed / indicated.

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Product does not exhibit any dangerous reactions under normal conditions. Hazardous polymerization will not occur.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Avoid contact with the following materials: Strong acids. bases

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon dioxide (CO2). Carbon monoxide (CO). When heated to decomposition, its emits acrid smoke as well as carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD_{50}) No data available.

Acute toxicity - dermal

Notes (dermal LD_{50}) No data available.

Acute toxicity - inhalation

Notes (inhalation LC_{50}) No data available.

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin.

Skin sensitisation

Skin sensitisation Sensitising.

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity No data available.

12.2. Persistence and degradability

Persistence and degradability Possibly hazardous short term degradation products are not likely, however long term degradation products may arise. The Products of degradation are more toxic.

Biodegradation No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

SPEARMINT OIL ORGANIC

12.4. Mobility in soil

Surface tension No data available.

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. Do not empty into drains.

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

SPEARMINT OIL ORGANIC

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

EmS	F-A, S-F
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

SECTION 16: Other information

Revision date	18/02/2019
Revision	3
Supersedes date	17/07/2018
SDS number	5277
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. H319 Causes serious eye irritation. H400 Very 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.