### **CERTIFICATE OF ANALYSIS**

PRODUCT DESCRIPTION	100% PURE PEPPERMINT ARVENSIS
APPEARANCE	COLOURLESS LIQUID
BATCH NUMBER	4562902
BEST BEFORE END	12/2027

ANALYSIS	RESULTS	SPECIFICATION
Colour	Υ	COLOURLESS
Refractive Index 20degC	1.459	>= 1.457 <= 1.464
Optical Rotation	-22.0	>= -30.0 <= -16.0
Density (g/ml,20c)	0.890	>= 0.890 <= 0.905
Pulegone (%)	0.7	>= 0.2 <= 3.0

Product Name: PEPPERMINT ARVENSIS

We certify that the above product is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA), 51st Amendment

to the IFRA Code of Practice (published June, 2023), provided it is used in the following class(es) at a maximum concentration level of:

IFRA Class	Maximum level of use (%)
Category 1	100
Category 2	30.0
Category 3	10.0
Category 4	100
Category 5A	100
Category 5B	19.50
Category 5C	29.50
Category 5D	6.50
Category 6	100
Category 7A	19.50
Category 7B	19.50
Category 8	6.50
Category 9	90.0
Category 10A	90.0
Category 10B	100
Category 11A	6.50
Category 11B	6.50
Category 12	100

#### **Components**

1 Carvone 0.2%

The IFRA Standards regarding use restrictions are based on safety assessments by the panel of experts of the RIFM and are enforced by the IFRA Scientific Committee. This Certificate provides restrictions for use of the specified product based only on those materials restricted by IFRA Standards for the toxicity endpoint(s) described in each Standard. This Certificate does not provide certification of a comprehensive safety assessment of all product constituents. It is the ultimate responsibility of our customer to ensure the safety of the final product with other tests if necessary.

#### ANNEX : Definition of IFRA Classes 50th Amendment

IFRA class	Product application
Category 1	Lip Products of all types (solid and liquid lipsticks, balms, clear or colored, etc.) Children's toys
Category 2	Deodorant and antiperspirant products of all types including any product with intended or reasonably foreseeable use on the axillae or labelled as such (spray, stick, roll-on, under-arm, deocologne, etc.) Body sprays (including body mist)
Category 3	Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturizer.
	Facial make up and foundation
	Make-up remover for face and eyes
	Nose pore strips Wipes or refreshing tissues for face, neck, hands, body
	Body and face paint (for children and adults)
	Facial masks for face and around the eyes
Category 4	Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau de Toilette, Parfum, Cologne,
0,	solid perfume, fragrancing cream, aftershaves of all types, etc.)
	Fragranced bracelets
	Ingredients of perfume kits and fragrance mixtures for cosmetic kits
	Scent pads, foil packs
Catagon / FA	Scent strips for hydroalcoholic products
Category 5A	Body creams, oils, lotions of all types Foot care products (creams and powders)
	Insect repellent (intended to be applied to the skin)
	All powders and talc (excluding baby powders and talc)
Category 5B	Facial toner
0,	Facial moisturizers and creams
Category 5C	Hand cream
	Nail care products including cuticle creams, etc.
Category 5D	Hand sanitizers Baby cream/lotion, baby oil, baby powders and talc
Category 5D Category 6	Toothpaste
outogoly o	Mouthwash, including breath sprays
	Toothpowder, strips, mouthwash tablets
Category 7A	Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse-off hair dyes
Category 7B	Hair sprays of all types (pumps, aerosol sprays, etc.)
	Hair styling aids non sprays (mousse, gels, leave- on conditioners)
	Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes
	Shampoo - Dry (waterless shampoo) Hair deodorizer
Category 8	Intimate wipes
outogoly o	Tampons
	Baby wipes
	Toilet paper (wet)
Category 9	Bar soap
	Shampoo of all type
	Cleanser for face (rinse-off)
	Conditioner (rinse-off) Liquid soap
	Body washes and shower gels of all types
	Baby wash, bath, shampoo
	Bath gels, foams, mousses, salts, oils and other products added to bathwater
	Foot care products (feet are placed in a bath for soaking)
	Shaving creams of all types (stick, gels, foams, etc.)
	All depilatories (including facial) and waxes for mechanical hair removal
	Shampoos for pets

IFRA class	Product application
Category 10A	<ul> <li>Hand wash laundry detergent (including concentrates)</li> <li>Laundry pre-treatment of all types (e.g.paste, sprays, sticks)</li> <li>Hand dishwashing detergent (including concentrates)</li> <li>Hard surface cleaners of all types (bathroom and kitchen cleansers,furniture polish, etc.)</li> <li>Machine laundry detergents with skin contact (e.g. liquids, powders) including concentrates</li> <li>Dry cleaning kits</li> <li>Toilet seat wipes</li> <li>Fabric softeners of all types including fabric softener sheets</li> <li>Household cleaning products, other types including fabric cleaners, soft surface cleaners, carpet cleaners, furniture polishes sprays and</li> <li>wipes, leather cleaning wipes, stain removers, fabric enhancing sprays, treatment products for textiles (e.g. starch sprays, fabric treated</li> <li>with fragrances</li> <li>after wash, deodorizers for textiles or fabrics)</li> <li>Floor wax</li> <li>Fragranced oil for lamp ring, reed diffusers, pot-pourri, liquid refills for air fresheners (non-cartridge</li> </ul>
	systems), etc.
Category 10B	Ironing water (Odorized distilled water) Animal sprays – sprays applied to animals of all types Air freshener sprays, manual, including aerosol and pump Aerosol/spray insecticides
Category 11A	Feminine hygiene conventional pads,liners, interlabial pads Diapers (baby and adult) Adult incontinence pant, pad Toilet paper (dry)
Category 11B	Tights with moisturizers Scented socks, gloves Facial tissues (dry tissues) Napkins Paper towels Wheat bags Facial masks (paper/protective) e.g.surgical masks not used as medicaldevice Fertilizers, solid (pellet or powder)
Category 12	Candles of all types (including encased) Laundry detergents for machine wash with minimal skin contact (e.g. Liquid tabs, pods) Automated air fresheners and fragrancing of all types (concentrated aerosol with metered doses (range 0.05-0.5mL/spray), plug-ins, closed systems, solid substrate, membrane delivery, electrical, powders, fragrancing sachets, incense, liquid refills (cartridge), air freshening crystals) Air delivery systems Cat litter Cell phone cases Deodorizers/maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders) Fuels Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosols/sprays Joss sticks or incense sticks Dishwash detergent and deodorizers – for machine wash Olfactive board games Paints Plastic articles (excluding toys) Scratch and sniff Scent pack Scent delivery system (using dry air technology) Shoe polishes Rim blocks (Toilet)

#### **Cosmetic Allergens**

Product name	PEPPERMINTARVENSIS
Comment	

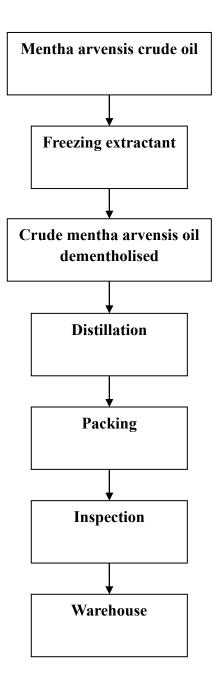
According to EU Cosmetic Regulation, including amendment ((EU) 2023/1545) published on July 27th 2023

these substances below have been identified as dermal allergens.

Allergens	CAS #	Total (%)
3-Propylidenephthalide	17369-59-4	0.0000
6-Methyl Coumarin	92-48-8	0.0000
Acetyl Cedrene	32388-55-9	0.0000
Alpha-Isomethyl Ionone	127-51-5	0.0000
Alpha-Terpinene	99-86-5	0.1500
α-Amyl cinnamic aldehyde	122-40-7	0.0000
Amyl Salicylate	2050-08-0	0.0000
α-Amyl cinnamic alcohol	101-85-9	0.0000
Anethole	104-46-1/ 4180-23-8	0.0000
Anisyl alcohol	105-13-5	0.0000
Benzaldehyde	100-52-7	0.0000
Benzyl Alcohol	100-51-6	0.0000
Benzyl Benzoate	120-51-4	0.0000
Benzyl Cinnamate	103-41-3	0.0000
Benzyl Salicylate	118-58-1	0.0000
Beta-Caryophyllene	87-44-5	8.0000
Camphor	76-22-2/ 21368-68-3/ 464-49-3/ 464-48-2	0.0000
Cananga Odorata Oil/Extract	83863-30-3/ 8006-81-3/ 68606-83-7/ 93686-30-7	0.0000
Carvone	99-49-0/ 6485-40-1/ 2244-16-8	0.2000
Cedrus Atlantica Oil/ Extract	92201-55-3/ 8023-85-6	0.0000
Cinnamic aldehyde	104-55-2	0.0000
Cinnamomum Cassia Leaf Oil	8007-80-5/ 84961-46-6	0.0000
Cinnamomum Zeylanicum Bark Oil	8015-91-6/ 84649-98-9	0.0000
Cinnamic alcohol	104-54-1	0.0000
Citral	5392-40-5/ 141-27-5/ 106-26-3	0.0000
Citronellol	106-22-9/ 26489-01-0/ 1117-61-9/ 7540-51-4	0.0000
Citrus Aurantium Bergamia Peel Oil	8007-75-8/ 89957-91-5/ 68648-33-9/ 85049-52-1	0.0000
Citrus Aurantium Flower Oil	72968-50-4/ 8028-48-6/ 8016-38-4	0.0000
Citrus Aurantium Peel Oil	68916-04-1/ 72968-50-4/ 97766-30-8/ 8028-48-6/ 8008-57-9	0.0000
Citrus Limon Peel Oil	84929-31-7/ 8008-56-8	0.0000
Coumarin	91-64-5	0.0000
Dimethyl Phenethyl Acetate	151-05-3	0.0000

3-Methyl-5-(2,2,3-Trimethyl-3-	67801-20-1	0.0000
Eucalyptus Globulus Oil	97926-40-4/ 8000-48-4	0.0000
Allergens	CAS #	Total (%)
Eugenia Caryophyllus Oil	8000-34-8/ 8015-97-2/ 84961-50-2	0.0000
Eugenol	97-53-0	0.0000
Eugenyl Acetate	93-28-7	0.0000
Treemoss extracts	90028-67-4	0.0000
Oakmoss extracts	90028-68-5	0.0000
Farnesol	4602-84-0	0.0000
Geraniol	106-24-1	0.0000
Geranyl Acetate	105-87-3	0.0000
Hexadecanolactone	109-29-5	0.0000
Hexamethylindanopyran	1222-05-5	0.0000
$\alpha$ -Hexyl cinnamic aldehyde	101-86-0	0.0000
Hydroxycitronellal	107-75-5	0.0000
Isoeugenol	97-54-1/ 5932-68-3/ 5912-86-7	0.0000
Isoeugenyl Acetate	93-29-8	0.0000
Jasmine Oil/Extract	84776-64-7/ 90045-94-6/ 8022-96-6/ 8024-43-9	0.0000
Juniperus Virginiana Oil	8000-27-9/ 85085-41-2	0.0000
Laurus Nobilis Leaf Oil	8002-41-3/ 8007-48-5/ 84603-73-6	0.0000
Lavandula Oil/ Extract	65-8/ 8000-28-0/ 90063-37-9	0.0000
Lemongrass Oil	8007-02-1/ 89998-16-3/ 91844-92-7	0.0000
Limonene	138-86-3/ 7705-14-8/ 5989-27-5/ 5989-54-8	11.0000
Linalool	78-70-6	0.5000
Linalyl Acetate	115-95-7	0.0000
Lippia Citriodora Absolute	8024-12-2/ 85116-63-8	0.0000
Mentha Piperita Oil	8006-90-4/ 84082-70-2	0.0000
Mentha Spicata Leaf Oil	8008-79-5/ 84696-51-5	0.0000
Menthol	89-78-1/ 1490-04-6/ 2216-51-5/ 15356-60-2	40.0000
Methyl heptine carbonate	111-12-6	0.0000
Methyl Salicylate	119-36-8	0.0000
Myroxylon Pereirae Oil/ Extract	8007-00-9	0.0000
Narcissus Extract	90064-26-9/ 68917-12-4/ 90064-27-0/ 90064-25-8	0.0000
Pelargonium Graveolens Flower Oil	90082-51-2/ 8000-46-2	0.0000
Pinene	80-56-8/ 7785-70-8/ 127-91-3/ 18172-67-3	12.0000
Pinus Mugo	90082-72-7	0.0000
Pinus Pumila	97676-05-6	0.0000
Pogostemon Cablin Oil	8014-09-3/ 84238-39-1	0.0000
Rose Flower Oil/Extract	13-7/ 92347-25-6	0.0000
Rose Ketones	82-3/ 23726-92-3/ 23726-91-2	0.0000
Salicylaldehyde	90-02-8	0.0000
Santalol	11031-45-1/ 115-71-9/ 77-42-9	0.0000
Santalum Album Oil	8006-87-9/ 84787-70-2	0.0000
Sclareol	515-03-7	0.0000
Terpineol	8000-41-7/ 98-55-5/ 138-87-4/ 586-81-2	2.0000
Terpinolene	586-62-9	0.5000
Tetramethylacetyloctahydronaphthalen		0.5000
es	54464-57-2/ 54464-59-4/ 68155-66-8/ 68155-67-9	0.0000
Trimethylbenzenepropanol	103694-68-4	0.0000
Turpentine	9005-90-7/ 8006-64-2/ 8052-14-0	0.0000
Vanillin	121-33-5	0.0000

## **Process flow of Peppermint Arvensis oil**



SAFETY DATA S CLP: According to 2015/830/E	
Version 11 Revised 20/09/2019 10	D: 17:23
Section 1. Identification	n of the substance/mixture and of the company/undertaking
1.1 Product I dentifier Product Name Code Number Alternative Name	100% PURE PEPPERMINT ARVENSIS OEPEPPARVE
REACH Reg No	01-2119973492-30-0000
1.2 Relevant identified	l uses of the substance or mixture and uses advised against
Concentrated material	for <b>fragrance use</b>
1.3 Details of the supp	lier of the safety data sheet MADAR Corporation Ltd 19-20 Sandleheath Industrial Estate Fordingbridge Hampshire SP6 1PA
Telephone Number	+44 (0)1425 655555
Email Address	technical@madarcorporation.co.uk
1.4 Emergency Tel No	+44 (0)1425 655555
Section 2. HAZARD I DE	NTIFICATION
2.1 Classification of th	e substance or mixture
ATO 4	Acute toxicity, oral, category 4
SCI 2	Skin corrosion/irritation, category 2
SS 1	Skin sensitisation, category 1
EH C2	Aquatic hazard, chronic, category 2

SAFETY DATA SHEET CLP: According to 2015/830/EU			
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CLP Label elements CLP classification according to Regulation (EC) No 1272/2008 Hazard Pictograms			
Signal Word	Warning		
Hazard Stateme	nts		
H302	Harmful if swallowed		
H315	Causes skin irritation		
H317	May cause an allergic skin reaction		
H411	Toxic to aquatic life with long lasting effects		
Precautionary S <sup>-</sup>	tatements		
P262	Do not get in eyes, on skin, or on clothing.		
P273	Avoid release to the environment.		
P280	Wear protective gloves and eye protection		
P391	Collect spillage.		
2.3 Other Hazards Contains Limonene and Linalool which may produce an allergic reaction No further information available at this time			
	tion / information on ingredients ed here for hazardous components are for illustrative purposes only		
3.1 Substances			
Description	100% PURE PEPPERMINT ARVENSIS		
EC/EINECS	290-058-5		
CAS Number	90063-97-1		
USCAS Number	68917-18-0		

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CLP: According to 2015/830/EU

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Hazardous com	ponents	
ID Numbers	Chemical Name, Classification and Hazards	Conc (%
CAS 2216-51-5 EINECS 218-690-9 REACH	I-Menthol SCI 2;EDI 2 H315,H319	45.0000
CAS 89-80-5 EINECS 201-941-1 REACH	Menthone (trans-para-Menthan-3-one) EH C3 H412	35.0000
CAS 5989-27-5 EINECS 227-813-5 REACH	d-Limonene (p-Mentha-1,8-diene) AH 1; SCI 2; SS 1B; EH A1, C1 H304, H315, H317, H400, H410	5.0000
CAS 80-56-8 EINECS 201-291-9 REACH	alpha-Pinene AH 1; SCI 2; SS 1B; EH A1, C1 H304, H315, H317, H400, H410	5.0000
CAS 89-48-5 EINECS 201-911-8 REACH	Menthyl acetate EH C2 H411	4.0000
CAS 15932-80-6 EINECS 240-070-1 REACH	Pulegones ATO 4(470) H302	2.0000
CAS 78-70-6 EINECS 201-134-4 REACH	Linalool SCI 2;SS 1B;EDI 2 H315,H317,H319	0.4000

Refer to section 16 for the wording of listed classification and hazard statement codes

#### Section 4. First Aid measures

Take phrases in sections 2 into account

- 4.1 Description of first aid measures
  - After inhalation

Remove from the exposure area to fresh air. Contact a doctor if necessary.

#### After skin contact

Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.

After eye contact

Flush with plenty of water and seek medical advice if necessary.

#### After ingestion

Wash mouth with plenty of water and obtain medical advice immediately.

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- 4.2 Most important symptoms and effects, both acute and delayed No further information available at this time
- 4.3 Indication of immediate medical attention and special treatment needed No further information available at this time

Section 5. Fire-fighting measures

- 5.1 Extinguishing Media Carbon dioxide, foam or dry powder DO NOT USE A DIRECT WATER JET.
- 5.2 Special hazards arising from the substance or mixture May produce Carbon dioxide and unidentified organic compounds.
- 5.3 Advice for fire-fighters Wear protective clothing and avoid inhalation of vapours.

Section 6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Remove all sources of ignition. Avoid inhalation, skin and eye contact. Ensure proper ventilation.
- 6.2 Environmental precautions

Do not discharge directly into drains or the soil. Keep away from surface and ground water

6.3 Methods and material for containment and cleaning up

Soak up spillage with sand or other inert absorbant material such as earth or vemiculite; transfer used material to a suitable waste container and dispose in accordance with regulations.

6.4 Reference to other sections Refer to information in Sections 7, 8 and 13

Section 7. Handling and storage

- 7.1 Precautions for safe handling Maintain good occupational and personal hygiene. Avoid inhalation and contact with skin and eyes.
- 7.2 Conditions for safe storage, including any incompatibilities Store in tightly sealed original containers away from ignition sources and in a cool place.

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7.3 Specific end use(s) No further information available			
Section 8. Exposure controls / personal protection			
8.1 Control Parameters No information available			
8.2 Exposure controls Engineering controls No information available			
Individual protection measures Refer to Section 5 for specific fire/chemical personal protective equipment advice. Always wash routinely before breaks, meals and at the end of the work period. Eye/face protection Wear safety goggles.			
Hand protection			
Wear chemically resistant disposable gloves.			
Other skin protection Wear overalls. Always wash routinely before breaks, meals and at the end of the work period.			
Respiratory protection			
Not generally required. Use inhalation protection in poorly ventilated areas			
Thermal hazards No information available			
Environmental exposure controls No information available			
Section 9. Physical and chemic	al properties		
9.1 Information on basic phys FLASH POINT (°C)	ical and chemical properties 73		
Colour	Colourless		
Aroma	Harsh, mentholic mint		
Solubility	Insoluble		
-			

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9.2 Other information No further information available

Section 10. Stability and reactivity

10.1 Reactivity Not determined

10.2 Chemical Stability Not determined

10.3 Possibility of hazardous reactions Not determined

10.4 Conditions to avoid Extreme temperatures

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

Not determined

Section 11. Toxicological information

11.1 Information on toxicological effectsAcute toxicityNo data available

Skin corrosion / irritation No data available

Serious eye damage / irritation No data available

Respiratory or skin sensitisation No data available

Germ cell mutagenicity No data available

Carcinogenicity

No data available

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Reproductive toxicity

No data available

STO-single exposure No data available

STO-repeated exposure

No data available

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 as well as chronic effects from short and long-term exposure

No data available

Interactive effects

No data available

Other information No data available

#### Section 12. Ecological information

12.1 Toxicity

No data available; avoid soil, surface water and water-bearing stratum contamination.

- 12.2 Persistence and degradability No data available
- 12.3 Bioaccumulative potential No data available
- 12.4 Mobility in soil

### No data available

12.5 Results of PBT and vPvB assessment No data available

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12.6 Other adverse effects No data available				
Section 13. Disposal considerations Please refer to the information in section 8 (Exposure controls and personal protection)				
13.1 Waste treatment methods Dispose in accordance with the law and local regulations. Treat as trade effluent.				
Section 14. Transport informat	ion			
14.1 UN number	3082			
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (PINENE, LIMONENE)			
14.3 Transport hazard class(e	s) 9			
14.4 Packing group	111			
Tunnel Code	(E)			
14.5 Environmental Hazards Marine Pollutant - contains environmentally hazardous substances (Pinene, Limonene)				
14.6 Special precautions for user No relevant information available				
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable				
Section 15. Regulatory information				
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture				
No relevant information available at this time				
15.2 Chemical safety assessment A chemical safety assessment has not been carried out				
Section 16. Other information				
Full list of precautionary phrases				
	get in eyes, on skin, or on clothing.			
	P273 Avoid release to the environment.			

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P280	Wear protective gloves and eye protection	
P391	Collect spillage.	
Wording of any hazard classes listed in section 3		
ATO 4	Acute toxicity, oral, category 4	
AH 1	Aspiration hazard, category 1	
SCI 2	Skin corrosion/irritation, category 2	
SS 1B	Skin sensitisation, category 1B	
EDI 2	Eye damage/irritation, category 2	
EH A1	Aquatic hazard, acute, category 1	
EH C1	Aquatic hazard, chronic, category 1	
EH C2	Aquatic hazard, chronic, category 2	
EH C3	Aquatic hazard, chronic, category 3	
Wording of any hazard statements listed in section 3		
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	

The information contained herein is true and accurate to the best of our knowledge. All information is valid until revisions are issued. However, the accuracy of this information cannot be guaranteed by the company as the data has been obtained from different sources. We will not, therefore, accept liability for misuse of this data resulting in damage or loss.

## PRODUCT SPECIFICATION

Product Name	:	PEPPERMINT ARVENSIS
Reference	:	OEPEPPARVE
Flash Point deg C	:	73
Aroma / Taste	:	HARSH, MENTHOLIC MINT
Appearance / Physical State	:	COLOURLESS LIQUID
Composition	:	100% ESSENTIAL OIL

Colour	COLOURLESS		
Refractive Index 20degC	>= 1.457 <= 1.464		
Optical Rotation	>= -30.0 <= -16.0		
Density (g/ml,20c)	>= 0.890 <= 0.905		
Pulegone (%)	>= 0.2 <= 2.5		

Version Number : 12 Version Date : 01 December 2021