



**CERTIFICATE OF ANALYSIS**  
**ORGANIC RAVENSARA OIL**

Batch No.: 4376802  
Expiry Date: October 2022

**Appearance :** A colourless to pale yellow liquid.  
**Odour:** Characteristic

TEST	SPECIFICATION	ANALYSIS
Relative Density @ 20°C	0.870 – 0.900	0.9074
Refractive Index @ 20°C	1.450 – 1.490	1.4648
Optical Rotation @ 20°C	-20 to -5°	-17.89



## ALLERGENS DECLARATION

Product Name	Organic Ravensara oil				
INCI Name	Ravensara Aromatica Leaf oil				
Date	21/11/2016	Product Code	WHC558	Revision	1

Material	CAS Number	Cosmetic Allergens Inclusion (%)
AMYL CINNAMAL	122-40-7	-
BENZYL ALCOHOL	100-51-6	-
CINNAMYL ALCOHOL	104-54-1	-
CITRAL	5392-40-5	-
EUGENOL	97-53-0	<0.20
HYDROXYCITRONELLAL	107-75-5	-
ISO EUGENOL	97-54-1	-
AMYL CINNAMYL ALCOHOL	101-85-9	-
BENZYL SALICYLATE	118-58-1	-
CINNAMAL	104-55-2	-
COUMARIN	91-64-5	-
GERANIOL	106-24-1	<0.10
HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE	31906-04-4	-
ANISE ALCOHOL	105-13-5	-
BENZYL CINNAMATE	103-41-3	-
FARNESOL	4602-84-0	-
BUTYLPHENYLMETHYLPROPIONAL	80-54-6	-
LINALOOL	78-70-6	<6.0
BENZYL BENZOATE	120-51-4	-
CITRONELLOL	106-22-9	-
HEXYL CINNAMAL	101-86-0	-
LIMONENE	5989-27-5	<21.1
METHYL 2-OCTYNOATE	111-12-6	-
ALPHA-ISOMETHYLIONONE	127-51-5	-
EVERNIA PRUNASTRI EXTRACT	90028-68-5	-
EVERNIA FURFURACEA EXTRACT	90028-67-4	-

**DISCLAIMER:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

## IFRA Conformity Certificate

Product Name	Organic Ravensara Oil
INCI Name	Ravensara Aromatica Leaf Oil
Product Code	WHC558

We certify that the above compound is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA 48<sup>th</sup> Amendment / published June 2015), provided it is used in the following class(es) at a maximum concentration level of:

Restricted Component	Cas No:	% Level in Product	IFRA Standard
Limonene	5989-27-5	≤ 21.1	Specification Std
Linalool	78-70-6	≤ 6.0	Specification Std
Geraniol	106-24-1	≤ 0.1	Restriction Stds (QRA cat.)
Eugenol	97-53-0	≤ 0.2	Restriction Stds (QRA cat.)
Benzaldehyde	100-52-7	≤ 0.1	Restriction Stds (QRA cat.)
Carvone	99-49-0	≤ 0.1	Restriction Stds (QRA cat.)
trans-2-Hexenal	6728-2-3	≤ 0.1	Restriction Stds (QRA cat.)
Methyl Eugenol (from naturals)	93-15-2	≤ 8.6	Restriction Stds (non QRA)
Methyl Chavicol (Estragole)	140-67-0	≤ 9.8	Restriction Stds (non QRA)
Furfural	98-01-1	≤ 0.1	Restriction Stds (non QRA)

IFRA class(es) [see annex for details]	Max level of use (%)
Class 1	Not approved
Class 2	0.005
Class 3.A	0.005
Class 3.B	0.093
Class 3.C	0.233
Class 3.D	0.005
Class 4.A	0.005
Class 4.B	0.233
Class 4.C	0.005
Class 4.D	0.047
Class 5	0.047
Class 6	Not approved
Class 7.A	0.047
Class 7.B	0.047
Class 8.A	0.047
Class 8.B	0.012



## IFRA Conformity Certificate

Class 9.A	0.012
Class 9.B	0.012
Class 9.C	0.012
Class 10.A	0.012
Class 10.B	0.005
Class 11.A	0.233
Class 11 B	0.012

For other kinds of application or use at higher concentration levels, a new evaluation may be needed.

The IFRA Standards regarding use restrictions are based on safety assessments by the Panel of Experts of the RESEARCH INSTITUTE FOR FRAGRANCE MATERIALS (RIFM) and are enforced by the IFRA Scientific Committee.

Evaluation of individual Fragrance ingredients is made according to the safety standards contained in the relevant section of the IFRA Code of Practice.

This certificate serves only as a guide to the maximum level of use. It is the ultimate responsibility of the customer to ensure safe formulating principles are utilised and the safety of the final product (containing this fragrance), by further testing if need be.

Note 1: It is recommended that any material used to impart perfume or flavour in products intended for human ingestion should consist of ingredients that are in compliance with appropriate regulations for foods and food flavourings in the countries of planned distribution.

Note 2: Trials must be performed to satisfy suitability for specified application.

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## IFRA Conformity Certificate

### ANNEX: Definition of IFRA Classes

Finished product types	IFRA class
Lip Products of all types (solid and liquid lipsticks, balms, clear or coloured, etc.) Children's Toys.	Class 1
Deodorant and Antiperspirant Products of all types, including any product with intended or reasonably foreseeable use on the underarm or labelled as such (spray, stick, roll-on, under-arm, deo-cologne and body spray, etc.) Fragranced bracelets. Nose Pore Strips.	Class 2
Hydroalcoholic Products Applied To Recently Shaved Skin. (includes aftershave) (Edt range)	Class 3.A
Hydroalcoholic Products Applied To Recently Shaved Skin. (includes aftershave) (Fine fragrance range)	Class 3.B
Eye Products of all types (eye shadow, mascara, eyeliner, eye make-up, etc.) Men's Facial Creams, Balms. Baby Creams, Lotions, Oils. Body Paint for Children.	Class 3.C
Tampons	Class 3.D
Hydroalcoholic Products Applied To Unshaved Skin (includes aqueous based, alcoholic based and hydroalcoholic) like cologne, eau de cologne, eau de parfum or parfum. (EdT Range) Ingredients of perfume kits, scent strips for hydroalcoholic products. Scent pads, foil packs.	Class 4.A
Hydroalcoholic Products Applied To Unshaved Skin (includes aqueous based, alcoholic based and hydroalcoholic) like cologne, eau de cologne, eau de parfum or parfum (Fine fragrance Range)	Class 4.B
Hair Styling Aids, Hair Sprays of all types (pumps, aerosol sprays, etc.) Hair deodourant. Body Creams, Oils, Lotions, Fragrancing Creams of all types (except baby creams, lotions and oils) Fragrance Compounds for Cosmetic Kits, Foot care products, hair deodourant. Body paint except those for children. Body sprays (including body mist) with no intended or reasonably foreseeable use on the underarm.	Class 4.C
Fragrancing creams, Solid perfumes.	Class 4.D
Women's Facial Creams/Facial Make-up. Hand cream. Hand sanitizers. Facial masks.* Baby Powder & Talc. Hair Permanent and Other Hair Chemical Treatments (e.g. relaxers) but not hair dyes. Wipes or Refreshing Tissues for Face, Neck, Hands, Body. Dry Shampoo or Waterless Shampoo.	Class 5
Mouthwash, including Breath sprays. Toothpaste.	Class 6



## IFRA Conformity Certificate

Intimate Wipes, Baby Wipes.	Class 7.A
Insect Repellent (intended to be applied to the skin).	Class 7.B
Make-up Removers of all types (not including face cleansers) Hair Styling Aids Non-Spray of all types (mousse, gels, leave-in conditioners, etc.). Nail care. Powders and talcs (not including baby powders and talcs)	Class 8.A
Hair Dyes	Class 8.B
Liquid soap, Bar Soap (Toilet Soap) All Depilatories (including waxes for mechanical hair removal). Conditioner (Rinse-Off). Shampoos of all types (including baby shampoos) Face Cleansers of all types (washes, gels, scrubs, etc.) Shaving Creams of all types (stick, gels, foams, etc.) Body Washes of all types (including baby washes) and Shower Gels of all types. Bath Gels, Foams, Mousses, Salts, Oils and Other Products Added To Bathwater.	Class 9.A
Feminine Hygiene – Pads Feminine Hygiene – Liners Toilet Paper Wheat Bags.	Class 9.B
Facial tissues. Napkins. Paper towels. Other Aerosols (including air fresheners, sprays but not including deodorant/ antiperspirant, hair styling aids.) Fragranced Face masks (not intended to be used as medical device)	Class 9.C
Handwash Laundry Detergents of all types including concentrates Machine wash Laundry Detergents of all types including concentrates (liquid, powder, tablet etc.) including laundry bleaches and concentrates. Fabric softeners of all types including fabric softener sheets. Other Household Cleaning Products (fabric cleaners, soft surface cleaners, carpet cleaners) Dry cleaning kits. Hard Surface Cleaners of all types (bathroom and kitchen cleansers, furniture polish etc) Shampoos for pets. Hand dishwashing detergent including concentrates. Scented gloves, socks, tights with moisturisers.	Class 10.A
Nappies Toilet seat wipes.	Class 10.B
All non-skin contact, Including: Air Fresheners and Fragrancing of all types (excluding aerosol products): concentrated aerosol air fresheners, plug-ins, solid substrate, membrane delivery; Toilet blocks, Joss sticks, incense; Insecticides (mosquito coil, paper, electrical, etc. excluding aerosols); Plastic articles (excluding toys); Candles; Fuels ; Paints. Fragranced lamp ring. Scent pack. Floor wax. Scent Delivery System using a dry air technology that releases a fragrance without sprays, aerosols or heated oils (technology of nebulization).	Class 11.A



## IFRA Conformity Certificate

Air delivery systems.

All incidental skin contact, including:

Machine Dishwash Detergent and Deodorizers, Machine Only Laundry Detergent (e.g. liquitabs)\*\*

Deodorizers/Maskers (e.g.fabric drying machine deodorizers, carpet powders)

Pot pourri, fragrancing sachets, liquid refills for air fresheners, etc.

Shoe Polishes; Cat litter; animal sprays (excluding aerosols); Treated textiles; Odored distilled water.

Scratch and sniff (sampling technology)

Infused socks

11.B

\* Class 5, Facial masks: There are several types of masks: peel off (similar to rinse-off, rinse-off and leave-on (you only remove the excess with a facial tissue). To ease the split the most restrictive, i.e. leave-on is applied for all.

\*\* Liquitabs corresponds to a dose of liquids wrapped in a film: no contact with hands is expected under normal conditions of use

**The table was prepared with the intention to cover the vast majority of the products; however it may not cover some specific applications. In this case other classes may be attributed based on a specific risk assessment.**



## MATERIAL SAFETY DATA SHEET

Version- 2

Date-03.10.2016

### 01. IDENTIFICATION OF THE SUBSTANCE/MIXTURE & OF THE COMPANY/UNDERTAKING

1:1-Product Identifiers:					
Product name		Ravensara Organic Oil			
Biological Definition		Ravensara Aromatica Leaf Oil is the volatile oil distilled from the leaves of <i>Ravensara aromatica</i> , <i>Lauraceae</i> .			
INCI Name		Ravensara Aromatica Leaf Oil			
Synonyms & Trade Names		Ravensara Aromatica Oil			
Reach Registration Number		-			
FEMA No.	-	FDA No.	-	CoE No.	-
CAS-No	91770-56-8	EC No.	294-842-8	EINECS No.	294-842-8





1:2 – Relevant Identified Uses of the substance or mixture and uses advised against:	
Identified Uses	No additional data available
1:3 – Details of the supplier of the Safety data sheets.	
Company Name	<b>MADAR Corporation Ltd</b> 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA Email: <a href="mailto:sales@madarcorporation.co.uk">sales@madarcorporation.co.uk</a> Tel: 01425 655555 Approved Sellers: Mystic Moments, New Directions, World of Moulds
1:4 – Emergency Telephone number	
Contact telephone number	01425 655555

### 02. HAZARDS IDENTIFICATION

2:1 Classification of the substance or mixture	
Classification (EC 1272/2008)	The Full Text for all Hazard Statements displayed in Section 16. Flammable liquid, Category 3 (Flam. Liq. 3, H226). Skin irritation, Category 2 (Skin Irrit. 2, H315). Eye irritation, Category 2 (Eye Irrit. 2, H319). Skin sensitisation, Category 1 (Skin Sens. 1, H317). Germ cell mutagenicity, Category 2 (Muta. 2, H341). Carcinogenicity, Category 2 (Carc. 2, H351). Aspiration hazard, Category 1 (Asp. Tox. 1, H304). Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).



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2.2 – Label Elements				
Label Elements in accordance with (EC) No 1272/2008	GHS08	GHS07	GHS09	GHS02
				
2:3 - Other hazards				
Signal Word	Danger			
Contains	601-029-00-7 (R)-P-MENTHA-1,8-DIENE EC 205-427-8 ESTRAGOLE EC 236-719-3 DELTA-3-CARENE EC 201-291-9 ALPHA-PINENE X EC 204-622-5 MYRCENE EC 202-223-0 EUGENYL METHYL ETHER (METHYL EUGENOL) EC 204-872-5 B-PINENE EC 201-746-1 BETA-CARYOPHYLLENE EC 202-792-5 A-PHELLANDRENE EC 202-794-6 G-TERPINENE EC 202-795-1 P-MENTHA-1,3-DIENE (SEE ALPHA-TERPINENE)			
Hazard Statements	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. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H411 Toxic to aquatic life with long lasting effects			
Precautionary Statements	P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. 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 or doctor/physician. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
Supplementary Precautionary Statements	None			

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PBT or vPvB according to Annex XIII	The substance does not satisfy the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006..
Adverse physio-chemical properties	No additional data available
Adverse effects on human health	No additional data available

### 03. COMPOSITION/INFORMATION ON INGREDIENTS

3:1 - Substances													
Substances	See ingredients listed in section 3.2												
3:2 - Mixtures													
Mixtures	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #A9A9A9;"><b>10.0 - 25.0% (R)-P-MENTHA-1,8-DIENE</b> CAS: 5989-27-5, EC: 227-813-5</td> </tr> <tr> <td>Classification (EC 1272/2008) Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317, Aquatic Acute 1, H400 M Acute = 1, Aquatic Chronic 1, H410, M Chronic = 1</td> </tr> <tr> <td style="background-color: #A9A9A9;"><b>10.0 - 25.0% 4(10)-THUJENE</b> CAS: 3387-41-5, EC: 222-212-4</td> </tr> <tr> <td>Classification (EC 1272/2008)</td> </tr> <tr> <td style="background-color: #A9A9A9;"><b>2.5 – 10.0% ESTRAGOLE</b> CAS: 140-67-0, EC: 205-427-8</td> </tr> <tr> <td>Classification (EC 1272/2008) Acute Tox. 4, H302, Carc. 2, H351, Muta. 2, H341, Skin Sens. 1, H317</td> </tr> <tr> <td style="background-color: #A9A9A9;"><b>2.5 – 10.0% DELTA-3-CARENE</b> CAS: 13466-78-9, EC: 236-719-3</td> </tr> <tr> <td>Classification (EC 1272/2008) Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317</td> </tr> <tr> <td style="background-color: #A9A9A9;"><b>2.5 – 10.0% Alpha-pinene</b> CAS-No.: 80-56-8 EC No.: 201-291-9</td> </tr> <tr> <td>Classification (EC 1272/2008) Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317</td> </tr> <tr> <td style="background-color: #A9A9A9;"><b>2.5 – 10.0% Linalool</b> CAS: 78-70-6, EC: 201-134-4</td> </tr> <tr> <td>Classification (EC 1272/2008) Eye Irrit. 2, H319, Skin Irrit. 2, H315</td> </tr> </table>	<b>10.0 - 25.0% (R)-P-MENTHA-1,8-DIENE</b> CAS: 5989-27-5, EC: 227-813-5	Classification (EC 1272/2008) Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317, Aquatic Acute 1, H400 M Acute = 1, Aquatic Chronic 1, H410, M Chronic = 1	<b>10.0 - 25.0% 4(10)-THUJENE</b> CAS: 3387-41-5, EC: 222-212-4	Classification (EC 1272/2008)	<b>2.5 – 10.0% ESTRAGOLE</b> CAS: 140-67-0, EC: 205-427-8	Classification (EC 1272/2008) Acute Tox. 4, H302, Carc. 2, H351, Muta. 2, H341, Skin Sens. 1, H317	<b>2.5 – 10.0% DELTA-3-CARENE</b> CAS: 13466-78-9, EC: 236-719-3	Classification (EC 1272/2008) Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317	<b>2.5 – 10.0% Alpha-pinene</b> CAS-No.: 80-56-8 EC No.: 201-291-9	Classification (EC 1272/2008) Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317	<b>2.5 – 10.0% Linalool</b> CAS: 78-70-6, EC: 201-134-4	Classification (EC 1272/2008) Eye Irrit. 2, H319, Skin Irrit. 2, H315
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Classification (EC 1272/2008) Eye Irrit. 2, H319, Skin Irrit. 2, H315													

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	<p><b>2.5 – 10.0% MYRCENE</b> CAS: 123-35-3, EC: 204-622-5</p> <p>Classification (EC 1272/2008) Asp. Tox. 1, H304, Eye Irrit. 2, H319, Flam. Liq. 3, H226, Skin Irrit. 2, H315</p>
	<p><b>2.5 - 10.0% 4-TERPINENOL</b> CAS: 562-74-3, EC: 209-235-5</p> <p>Classification (EC 1272/2008); Acute Tox. 4, H302, Eye Irrit. 2, H319, Skin Irrit. 2, H315</p>
	<p><b>2.5 – 10.0% EUGENYL METHYL ETHER (METHYL EUGENOL)</b> CAS: 93-15-2, EC: 202-223-0</p> <p>Classification (EC 1272/2008) Acute Tox. 4, H302, Carc. 2, H351, Muta. 2, H341</p>
	<p><b>2.5 – 10.0% B-PINENE</b> CAS: 127-91-3, EC: 204-872-5</p> <p>Classification (EC 1272/2008) Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317</p>
	<p><b>2.5 – 10.0% EUCALYPTOL</b> CAS: 87-44-5, EC: 201-746-1</p> <p>Classification (EC 1272/2008) Asp. Tox. 1, H304</p>
	<p><b>2.5 – 10.0% BETA-CARYOPHYLLENE</b> CAS: 87-44-5, EC: 201-746-1</p> <p>Classification (EC 1272/2008) Asp. Tox. 1, H304</p>
	<p><b>2.5 – 10.0% A-PHELLANDRENE</b> CAS: 99-83-2, EC: 202-792-5</p> <p>Classification (EC 1272/2008) Asp. Tox. 1, H304, Flam. Liq. 3, H226</p>
	<p><b>&lt;2.5% G-TERPINENE</b> CAS: 99-85-4, EC: 202-794-6</p> <p>Classification (EC 1272/2008) Asp. Tox. 1, H304, Flam. Liq. 3, H226</p>
	<p><b>&lt;2.5% CAMPHENE</b> CAS: 79-92-5, EC: 201-234-8</p> <p>Classification (EC 1272/2008) Eye Irrit. 2, H319, Aquatic Acute 1, H400, M Acute = 1, Aquatic Chronic 1, H410 M Chronic = 1</p>
	<p><b>&lt;2.5% P-MENTHA-1,3-DIENE (SEE ALPHA-TERPINENE)</b> CAS: 99-86-5, EC: 202-795-1</p>

## MATERIAL SAFETY DATA SHEET

	Classification (EC 1272/2008) Asp. Tox. 1, H304, Acute Tox. 4, H302, Aquatic Chronic 2, H411, Flam. Liq. 3, H226
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### **04. FIRST AID MEASURES**

<b>4:1 – Description of first aid measures</b>	
<b>Inhalation</b>	Move to fresh air for at least 15 minutes, in case of complaints seek medical attention.
<b>Ingestion</b>	Do not give the patient anything orally. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Seek medical attention immediately, showing the label. If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the doctor.
<b>Skin Contact</b>	Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. Watch out for any remaining product between skin and clothing, watches, shoes, etc. In the event of an allergic reaction, seek medical attention. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.
<b>Eye Contact</b>	Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.
<b>4:2 – Most important symptoms and effects, both acute and delayed</b>	
<b>Symptoms and effects</b>	No additional data available
<b>4:3 – Indication of any immediate medical attention and special treatment needed</b>	
<b>Special requirements</b>	No additional data available

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### 05. FIRE-FIGHTING MEASURES

5:1 - Extinguishing Media	
Suitable extinguishing Media	Foam, Carbon dioxide or dry powder.
Unsuitable extinguishing Media-DO NOT USE	No additional data available
5:2 - Special Hazards arising from substance or mixture	
Specific hazards	<p>A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke. In the event of a fire, the following may be formed :</p> <ul style="list-style-type: none"> <li>- carbon monoxide (CO)</li> <li>- carbon dioxide (CO<sub>2</sub>).</li> </ul>
5:3 – Advice for firefighters	
Special firefighting procedures/ protective actions.	<p>Keep packages near the fire cool, to prevent pressurised containers from bursting. Suitable methods of extinction Prevent the effluent of fire-fighting measures from entering drains or waterways. Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.</p>

### 06. ACCIDENTAL RELEASE MEASURES

6:1 - Personal Precautions, protective equipment and emergency procedures.	
Personal precautions	<p>Consult the safety measures listed under headings 7 and 8. <b>For non first aid worker</b> Avoid any contact with the skin and eyes. <b>For first aid worker</b> First aid workers will be equipped with suitable personal protective equipment (See section 8).</p>
6:2 - Environmental Precautions	
Environmental Precautions	<p>Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Prevent any material from entering drains or waterways. If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.</p>

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	Use drums to dispose of collected waste in compliance with current regulations (see section 13).
<b>6:3 – Methods and materials for containment and cleaning up</b>	
<b>Spill Clean Up Methods</b>	Clean preferably with a detergent, do not use solvents.
<b>6:4 – Reference to other sections</b>	
<b>Reference to other sections</b>	Section 8 – Exposure controls/ personal protection for further information on personal precautions, Section 13 – Disposal considerations for further information on waste treatment.

### **07. HANDLING AND STORAGE**

<b>7:1 – Precautions for safe handling</b>	
<b>Usage precautions</b>	<p>Always wash hands after handling. Remove and wash contaminated clothing before re-using. Remove contaminated clothing and protective equipment before entering eating areas.</p> <p><b>Fire prevention :</b> Handle in well-ventilated areas. Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits. Never inhale this substance. Prevent the accumulation of electrostatic charges with connections to earth. Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected. Keep packages tightly closed and away from sources of heat, sparks and naked flames. Do not use tools which may produce sparks. Do not smoke. Prevent access by unauthorised personnel.</p> <p><b>Recommended equipment and procedures :</b> For personal protection, see section 8. Observe precautions stated on label and also industrial safety regulations. Avoid skin and eye contact with this substance. Avoid exposure - obtain special instructions before use.</p> <p><b>Prohibited equipment and procedures :</b> No smoking, eating or drinking in areas where the substance is used. Never open the packages under pressure</p>

## MATERIAL SAFETY DATA SHEET

### 7:2 – Conditions for safe Storage including any incompatibilities

Storage Precautions	<p><b>Storage</b> Keep the container tightly closed in a dry, well-ventilated place. Keep away from food and drink, including those for animals. Keep away from all sources of ignition - do not smoke. Keep well away from all sources of ignition, heat and direct sunlight. Avoid accumulation of electrostatic charges.</p> <p><b>Packaging</b> Always keep in packaging made of an identical material to the original.</p>
Suitable Packaging	No additional data available

### 7:3 – Specific end use (s)




End Uses	No additional data available
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## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8:1 – Control parameters

Components with workplace control parameters	<p>Occupational exposure limits : ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :</p> <table border="0"> <thead> <tr> <th>CAS</th> <th>TWA :</th> <th>STEL :</th> <th>Ceiling :</th> <th>Definition :</th> <th>Criteria :</th> </tr> </thead> <tbody> <tr> <td>13466-78-9</td> <td>20 ppm</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>80-56-8</td> <td>20 ppm</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>127-91-3</td> <td>20 ppm</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	13466-78-9	20 ppm	-	-	-	-	80-56-8	20 ppm	-	-	-	-	127-91-3	20 ppm	-	-	-	-
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :																				
13466-78-9	20 ppm	-	-	-	-																				
80-56-8	20 ppm	-	-	-	-																				
127-91-3	20 ppm	-	-	-	-																				

### 8:2 – Exposure controls

Protective Equipment	  
Process conditions	Provide eyewash station.
Engineering Measures	Where appropriate, use closed system to transfer and process this material – if appropriate, isolate mixing rooms and other areas. Where this material is used or openly handled - maintain these areas under negative air pressure relative to the rest of the plant.
Respiratory Equipment	Not necessary in adequate local with general ventilation - avoid breathing vapours.

## MATERIAL SAFETY DATA SHEET

Hand Protection	<p>Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.</p> <p>Gloves must be selected according to the application and duration of use at the workstation.</p> <p>Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.</p> <p>Recommended properties :</p> <p>- Impervious gloves in accordance with standard EN374</p>
Eye Protection	<p>Avoid contact with eyes.</p> <p>Use eye protectors designed to protect against liquid splashes</p> <p>Before handling, wear safety goggles with protective sides in accordance with standard EN166.</p> <p>In the event of high danger, protect the face with a face shield.</p> <p>Prescription glasses are not considered as protection.</p> <p>Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.</p> <p>Provide eyewash stations in facilities where the product is handled constantly.</p>
Other Protection	Protective work clothing solvent resistant (should be checked regularly).
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal protection	No additional data available.
Skin protection	<p>Avoid skin contact.</p> <p>Wear suitable protective clothing.</p> <p>Suitable type of protective clothing :</p> <p>In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.</p> <p>In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.</p> <p>Work clothing worn by personnel shall be laundered regularly.</p> <p>After contact with the product, all parts of the body that have been soiled must be washed.</p>
Environmental exposure controls	The usual precautions in handling chemicals have to be observed.

### **09. PHYSICAL AND CHEMICAL PROPERTIES**

<b>9:1 - Information on basic physical and chemical properties.</b>	
Appearance	Mobile liquid.
Colour	Colourless to pale yellow.
Odour	Characteristic.



## MATERIAL SAFETY DATA SHEET

Relative Density	0.870 – 0.900 @ 20°C
Flash Point (°C)	50°C
Refractive Index	1.480 – 1.489 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available.
Vapour Pressure	No additional data available.
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	No additional data available.
<b>9:2 - Other information</b>	
Other Information	No additional data available.

### **10. STABILITY AND REACTIVITY**

<b>10:1- Reactivity</b>	
Reactivity	No additional data available.
<b>10:2 - Chemical stability</b>	
Stability	This substance is stable under the recommended handling and storage conditions in section 7
<b>10:3 - Possibility of hazardous reactions</b>	
Possible hazardous reactions	No additional data available.
<b>10:4 - Conditions to avoid</b>	
Conditions to Avoid	Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises. Avoid : - accumulation of electrostatic charges. - heating - heat - flames and hot surfaces.
<b>10:5 – Incompatible materials</b>	
Incompatible materials	No additional data available.
<b>10:6 - Hazardous Decomposition Products</b>	

## MATERIAL SAFETY DATA SHEET

<b>11. TOXOLOGICAL INFORMATION</b>	
<b>Hazardous Decomposition Products</b>	The thermal decomposition may release/form : - carbon monoxide (CO) - carbon dioxide (CO <sub>2</sub> )

### 11. TOXOLOGICAL INFORMATION

11:1 Information on toxicological effects	
<b>Acute Toxicity</b>	P-MENTHA-1,3-DIENE (SEE ALPHA-TERPINENE) (CAS: 99-86-5) Oral route : LD50 = 1680 mg/kg  G-TERPINENE (CAS: 99-85-4) Oral route : LD50 = 3850 mg/kg  EUCALYPTOL (CAS: 470-82-6) Oral route : LD50 = 2480 mg/kg  EUGENYL METHYL ETHER (METHYL EUGENOL) (CAS: 93-15-2) Oral route : LD50 = 810 mg/kg  4-TERPINENOL (CAS: 562-74-3) Oral route : LD50 = 1300 mg/kg Dermal route : LD50 = 2500 mg/kg  LINALOOL (CAS: 78-70-6) Oral route : LD50 = 3000 mg/kg  ALPHA-PINENE X (CAS: 80-56-8) Oral route : LD50 = 3700 mg/kg  DELTA-3-CARENE (CAS: 13466-78-9) Oral route : LD50 = 4800 mg/kg  ESTRAGOLE (CAS: 140-67-0) Oral route : LD50 = 1230 mg/kg
<b>Skin corrosion / irritation</b>	May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours. May cause an allergic reaction by skin contact.
<b>Serious eye damage / irritation</b>	May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.
<b>Respiratory or skin sensitisation</b>	No additional data available.

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Germ Cell Mutagenicity	Cause for concern owing to the possibility that it may induce heritable mutations in the germ cells of humans.
Carcinogenicity	Suspected human carcinogen.
Reproductive toxicity	No additional data available.
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Aspiration hazard	Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration. May be fatal if swallowed and enters airways.
Photo-toxicity	No additional data available.
Other Information	CAS 93-15-2 : IARC Group 2B : The agent is possibly carcinogenic to humans. CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans..

### 12. ECOLOGICAL INFORMATION

12:1- Toxicity	
Ecotoxicity	Toxic to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways.
12:2 - Persistence & degradability	
Persistence & degradability	No additional data available.
12:3 - Bioaccumulative Potential	
Bioaccumulative Potential	No additional data available.
12:4 – Mobility in soil	
Mobility	No additional data available.
12:5 – Results of PBT and vPvB assessment	


## MATERIAL SAFETY DATA SHEET

PBT Assessment Results	No additional data available.
12:6 Other adverse effects	
Precautions	No additional data available


### **13. DISPOSAL CONSIDERATIONS**

13:1 Waste treatment methods	
Disposal Methods	<p>Do not pour into drains or waterways.</p> <p>Waste :</p> <p>Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.</p> <p>Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.</p> <p>Do not contaminate the ground or water with waste, do not dispose of waste into the environment.</p> <p>Soiled packaging :</p> <p>Empty container completely. Keep label(s) on container.</p> <p>Give to a certified disposal contractor.</p>

### **14. TRANSPORT INFORMATION**

Warning Icon	
14:1 – UN Number	
UN No Road – ADR/RID/ADN	1169
UN No Sea- IMDG	1169
UN No Air – ICAO	1169
14:2 – UN proper shipping name	
Road – ADR/RID/ADN	Extracts, aromatic, liquid.
Sea- IMDG	Extracts, aromatic, liquid.

## MATERIAL SAFETY DATA SHEET

Air - ICAO	Extracts, aromatic, liquid.									
<b>14:3 – Transport Hazard class (es)</b>										
Road – ADR/RID/ADN	Class 3									
Sea- IMDG	Class 3									
Air- ICAO	Class 3									
<b>14:4 - Packaging group</b>										
Road – ADR/RID/ADN	III									
Sea- IMDG	III									
Air - ICAO	III									
<b>14:5 – Environmental hazard</b>										
Environmentally hazardous substance/ marine pollutant.	Environmentally Hazardous Substance/Marine Pollutant.									
										
<b>14:6 - Special precautions for user</b>										
Precautions	<b>ADR/RID</b>									
	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	III	3	30	5 L	601 640E	E1	3	D/E
	<b>IMDG</b>									
	Class	2° Label	Pack gr.	LQ	EMS	Provis.	EQ			
	3	-	III	5 L	F-E,S-D	223 955	E1			
	<b>IATA</b>									
	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	3	-	III	355	60 L	366	220 L	A3	E1	
	3	-	III	Y344	10 L	-	-	A3	E1.	

## MATERIAL SAFETY DATA SHEET

	For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG. For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG
<b>14:7 – Transport in bulk according to Annex II of MARPOL 73/79 and the IBC code</b>	
	No additional data available

### **15. REGULATORY INFORMATION**

<b>15:1 – Safety, health and environmental regulations/ legislation specific for the substance or mixture.</b>	
EU Directives	Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 <sup>th</sup> Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.
Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716).
Approved Code of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG 108.
<b>15:2 Chemical Safety assessment</b>	
Assessment information	A chemical assessment for this product has not been carried out.

### **16. OTHER INFORMATION**

Revision Date	03.10.2016
Rev No/Repl, SDS Generated	2
Change Description	Updated to new MSDS format



## MATERIAL SAFETY DATA SHEET

Changes made by	M Cole
Review Date	03.10.2018
Risk Phrases in Full	None
Hazard Statements in Full	H226 Flammable liquid and vapour. H228 Flammable solid. 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. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. 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.
Other Information	None

**DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.**

## PRODUCT SPECIFICATION

Product Name		Ravensara Organic Oil			
Date	04/10/2016	Product Code	OCRAVE	Rev	2
Reason for Revision		To Comply with suppliers Specification			
Description	Ravensara oil Organic				
Appearance	Mobile liquid, colourless to pale yellow				
Odour	Characteristic				
INCI Name	Ravensara Aromatica Leaf oil				
CAS Number	91770-56-8	EC Number	294-842-8		

### TEST SPECIFICATION

Analytical Test	Specification Range
Specific Gravity @ 20°C (g/ml)	0.870 – 0.900
Refractive Index @ 20°C	1.480 – 1.489
Optical Rotation @ 20°C (Degrees)	-35.0 to -20.0

### STORAGE

Store product in full, tightly closed containers in a cool dry place away from heat and sunlight.

### STABILITY

When stored for more than 24 months, quality should be checked before use.

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### RAVENSARA OIL

<b>INCI name:</b>	Ravensara Aromatica Leaf Oil
<b>Synonyms:</b>	Ravensara Oil, ravensare, havozo, hazomanitra
<b>Country of Origin:</b>	Madagascar
<b>CAS Number:</b>	91770-56-8
<b>EC Number:</b>	294-842-8
<b>Status:</b>	100% Pure & Natural



#### General Description

Ravensara is a tree with several buttress roots at the base, reddish bark and strongly aromatic simple, elliptical leaves, belonging to the Lauraceae family. The Ravensara tree can grow up to 20 metres high.

#### Extraction

Ravensara aromatica Leaf Oil is the volatile oil steam distilled from the leaves of *Ravensara aromatica*.

#### Common Uses/Applications

- Aromatherapy applications.
- Fragrance component in soaps, perfumes and cosmetic products.

#### Aromatherapy Actions/Uses

- Considered to have the following properties: Analgesic, anti allergenic, anti bacterial & anti microbial, anti depressant, anti fungal, anti septic, anti spasmodic, anti viral, aphrodisiac, disinfectant, diuretic, expectorant, relaxant and tonic.
- Regarded to be helpful for: Rheumatism, gout, arthritis, acne, boils, hypertension, tension, stress, anxiety and other nervous problems, insomnia, headache, muscular and joint pain, reducing allergic tendency, diseases resulting from bacterial and viral infections, cholera, typhoid, uplifting mood, relaxing mind, severe cough, breathlessness, cramp, diarrhoea, pulling pain in abdomen and nervous afflictions, convulsions, enhancing libido, increasing urination (frequency and quantity).

#### Animal Non-Testing Declaration

MADAR Corporation has never been involved in animal testing or retesting for any of its products, nor has it sanctioned any third party to conduct such testing.

#### Transmissible/ Bovine Spongiform Encephalopathy (T.S.E/B.S.E)

This product does not contain, and is not derived from, specified risk material as defined in Commission Decision 97/534/EC or mechanically recovered meat obtained from the vertebral column of bovine, ovine or caprine animals. During production, storage and transport there is no contact with any extracts of animal (cattle, sheep, goat etc) origin and a cross contamination is excluded.

Product is therefore free from Bovine Spongiform Encephalopathy (BSE) and Transmissible Spongiform Encephalopathy (TSE).

#### Statement on Genetically Modified Organisms

We confirm to the best of our knowledge that this product does not contain nor has been produced with the aid of any genetically modified organism. In consequence, this product will not contain any detectable residues of protein or DNA resultant from genetic modification.

**The data provided in this document is meant to represent anecdotal, typical data and information for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is 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.**

Revision Date: 29/06/2015

Revision: 0