

# Certificate of Analysis

PRODUCT DETAILS					
Product Name	ROSE GERANIUM OIL				
Product Code	OEROSEGERA				
INCI Name	PELARGONIUM ROSEUM LEAF OIL				
Batch Number	4378402				
Best Before End	November 2022				
Identification	CAS No: 90082-55-6	EINECS No: 290-144-2			
		FEMA No: 2508			
		FDA NO: 182.20			
PHYSICAL AND CHEMICAL CHARACTERISTIC					
	SPECIFICATION RANGE			RESULTS	
Appearance	Liquid			Conforms	
Colour	Yellow to green yellow			Conforms	
Odour	Sweet, Rosey, Minty			Conforms	
Relative Density @ 20°C	0.860 - 0.905			0.894	
Refractive Index @ 20°C	1.461 - 1.475			1.464	
Flash Point	>86°C			Conforms	
MAIN CONSTITUENTS					
CONSTITUENT RANGE	RESULTS	CONSTITUENT RANGE	RESULTS	CONSTITUENT RANGE	RESULTS
Citronellol 25-43%	<b>35.79%</b>	Geraniol 5-20%	<b>12.48%</b>	Linalool 2-11%	<b>4.42%</b>
d,-Isomenthone 4-10%	<b>6.71%</b>	Menthone 0.01-2.5%	<b>1.27%</b>	Cis Rose Oxide 1-5%	<b>1.47%</b>
Citral 0.5 - 5%	<b>0.78%</b>				
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 above.				

**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 users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where MADAR Corporation make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. **It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.**

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



SAFETY DATA SHEET  
GERANIUM OIL (ROSE)

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

1.1. Product identifier

Product name **GERANIUM OIL (ROSE)**  
Product number **OEROSEGERA**  
Synonyms; trade names **PELARGONIUM ROSEUM LEAF OIL**  
CAS number **90082-55-6**  
Alternative Cas Number  
EC number **290-144-2**  
FEMA No: 2508

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

**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 Asp. Tox. 1 - H304  
Environmental hazards Aquatic Chronic 3 - H412  
  
Human health May be fatal if swallowed and enters airways. The liquid may be irritating to skin. May cause sensitisation or allergic reactions in sensitive individuals. May cause serious eye damage.  
Environmental The product contains a substance which is harmful to aquatic organisms.

2.2. Label elements

EC number 290-140-0



Signal word	Danger
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. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331 Do NOT induce vomiting.
Contains	Citronellol, Geraniol, d,l-Isomenthone, trans-menthone, Citral, (S)-p-mentha-1,8-diene
Supplementary precautionary statements	P261 Avoid breathing vapour/ spray. 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. 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. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. 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

Citronellol CAS number: 106-22-9	EC number: 203-375-0	25-43%
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317		
Geraniol CAS number: 106-24-1	EC number: 203-377-1	5-20%
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317		

Linalool CAS number: 78-70-6	EC number: 201-134-4	2-8.5%
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319		
d,l-Isomenthone CAS number: 491-07-6		4-10%
Classification Skin Irrit. 2 - H315 Skin Sens. 1B - H317		
trans-menthone CAS number: 89-80-5	EC number: 201-941-1	1-5%
Classification Skin Irrit. 2 - H315 Skin Sens. 1B - H317		
p-menth-1-en-8-ol CAS number: 98-55-5	EC number: 202-680-6	0.01-2%
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319		
Citral CAS number: 5392-40-5	EC number: 226-394-6	1-5%
Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317		
(S)-p-mentha-1,8-diene CAS number: 5989-54-8	EC number: 227-815-6	<1%
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		



**SECTION 4: First aid measures**

4.1. Description of first aid measures

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in doubt, get medical attention promptly.
Ingestion	Move affected person to fresh air at once. Do not induce vomiting. 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 if irritation persists after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately 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

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

Notes for the doctor      Treat symptomatically.

**SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable extinguishing media      Extinguish with foam, carbon dioxide, dry powder or water fog.

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

5.2. Special hazards arising from the substance or mixture

Specific hazards      Closed containers may build up pressure at elevated temperatures.

5.3. Advice for firefighters

Protective actions during firefighting      Avoid breathing fire gases or vapours.

Special protective equipment for firefighters      Use special protective clothing.

**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions      Avoid contact with skin and eyes. Avoid inhalation of vapours. For personal protection, see Section 8. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions      Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up      Cover with inert, inorganic, non-combustible material (e.g dry-lime, sand, soda ash). Place in covered containers and dispose of in accordance with local authority guidelines. Use non sparking tools. Ventilate area and wash spill site after pickup is complete.

6.4. Reference to other sections

Reference to other sections      For waste disposal, see Section 13.

**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. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Avoid inhalation of vapours. For personal protection, see Section 8.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep air contact to a minimum. 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

### 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 <sup>3</sup>	
	Workers - Dermal; Long term systemic effects: 2.5 mg/kg	
	Workers - Inhalation; Long term systemic effects: 2.8 mg/m <sup>3</sup>	
	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 <sup>3</sup>	
	General population - Oral; Long term systemic effects: 0.2 mg/kg	
	General population - Dermal; Short term systemic effects: 1.25 mg/kg	
	General population - Inhalation; Short term systemic effects: 0.7 mg/m <sup>3</sup>	
	- ; :	
	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		

### 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 <sup>3</sup>
	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 <sup>3</sup>
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	

## 8.2. Exposure controls

Protective equipment



Appropriate engineering controls	Provide eyewash station
Personal protection	General protective and hygienic measures: Use personal protective equipment depending on concentration and amount of hazardous substance. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.
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.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Appearance	
Colour	Pale yellow to amber yellow
Odour	Sweet Rosey minty
Flash point	>86°C
Relative density	0.860 - 0.905 @ 20°C
Optical rotation	-14 to -8 @ 20°C

### 9.2. Other information

Refractive index	1.461 - 1.475 @ 20°C
------------------	----------------------

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	No information available.
------------	---------------------------

### 10.2. Chemical stability

Stability	Stable under normal conditions.
-----------	---------------------------------

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None known.

### 10.4. Conditions to avoid

Conditions to avoid	Keep away from heat, sparks and open flame.
---------------------	---

### 10.5. Incompatible materials

Materials to avoid	Strong acids. Strong alkalis. Strong oxidising agents. Strong reducing agents.
--------------------	--

### 10.6. Hazardous decomposition products

Hazardous decomposition products	During combustion may form carbon monoxide and unidentified organic compounds.
----------------------------------	--

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological effects	No information available.
-----------------------	---------------------------

## SECTION 12: Ecological Information



#### 12.1. Toxicity 12.2. Persistence and degradability

Persistence and degradability No information available.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential No information 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

Disposal methods Recycling is preferred to disposal or burning. Disposal must be made according to official regulations. Must not be disposed together with household waste.

### SECTION 14: Transport information

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

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to the IBC Code Not applicable. Annex II of MARPOL 73/78 and the IBC Code

### SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).  
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Guidance CHIP for everyone HSG228.

#### 15.2. Chemical safety assessment

### SECTION 16: Other information



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.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

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

<b>PRODUCT DETAILS</b>		
Product Name	<b>ROSE GERANIUM OIL</b>	
Product Code	OEROSEGERA	
INCI Name	PELARGONIUM ROSEUM LEAF OIL	
Country of Origin	Various	
Tariff Number	33012941	
Natural Status	We hereby declare, to the best of our knowledge and from information received from our supplier, that this product is in accordance to the requirements of Articles 3 (2) (d) of Regulation (EC) 1334/2008 and therefore can be designated as natural.	
Food Grade Status	We confirm, from information received from our supplier, that this product conforms with EU Regulations and can be used in food.	
Kosher Certified	Yes	
Halal Certified	We hereby declare, from information received from our supplier, that this product does not contain any ingredient derived from animal origin, extracted from hair or feathers, animal fats, animal extracts, blood of any origin, blood plasma, pork and/or other meat products. This product does not contain alcohol (ethanol or grain alcohol) and has not been used in the manufacturing process.	
GMO Declaration	To the best of our knowledge and from information received from our supplier, this product does not derive from genetically modified starting raw material, or additives that are derived from genetically modified organisms.	
Identification	CAS No: 90082-55-6	EINECS No: 290-144-2
		FEMA: 2508
<b>PHYSICAL AND CHEMICAL CHARACTERISTIC</b>		
Appearance	Liquid	
Colour	Pale yellow to amber yellow	
Odour	Sweet Rosey Minty	
Relative Density @ 20°C	0.860 - 0.905	
Refractive Index @ 20°C	1.461 - 1.475	
Optical Rotation	-14 to -8	
<b>FRAGRANCE ALLERGENS</b>		
Citral (5392-27-5) <b>1-5%</b>	Citronellol (106-22-9) <b>25-43%</b>	Limonene (5989-27-5) <b>&lt;1%</b>
Geraniol (106-24-1) <b>5-20%</b>	Linalool (78-70-6) <b>2-8.5%</b>	
<b>FOOD ALLERGENS</b>		
None Present		
<b>IFRA</b>		
Citral (5392-27-5) <b>1-5%</b>	Citronellol (106-22-9) <b>25-43%</b>	Limonene (5989-27-5) <b>&lt;1%</b>
Geraniol (106-24-1) <b>5-20%</b>	Estragole (140-67-0) <b>&lt;0.2%</b>	
<b>STORAGE AND SHELF LIFE</b>		
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.	

Shelf Life	12 months unopened and stored as above.
------------	---

**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 users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where Madar Corporation make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. **It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.**



## Vegan Statement

IDENTIFICATION	
Product:	Rose Geranium
Cas No:	90082-51-2
EINECS No:	290-140-0
STATEMENT	
<p>We, MADAR Corporation Limited, from information received from our supplier, hereby declare that the material listed above is compliant with a vegan diet.</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>10<sup>th</sup> January 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>	

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

Tel: 01425 655555 Email: [technical@madarcorporation.co.uk](mailto:technical@madarcorporation.co.uk)