

Certificate of Analysis

PRODUCT DETAILS					
Product Name		ROSE GERANIUM OIL			
Product Code		OEROSEGERA			
INCI Name		PELARGONIUM ROSEUM LEAF OIL			
Batch Number		4354606			
Best Before End		March 2022			
Identification		CAS No: 90082-51-2		EINECS No: 290-140-0	
		Alternative Cas: 8000-46-2		FEMA No: 2508	
		CoE: 324n		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		0.893	
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%	35.24%	Geraniol 5-20%	12.84%	Linalool 2-11%	4.31%
d,-Isomenthone 4-10%	6.77%	Menthone 0.01-2.5%	0.90%	Cis Rose Oxide 1-5%	1.98%
Citral 0.5 - 5%	0.79%				
STORAGE AND SHELF LIFE					
Storage		Store in tightly closed container with minimum headspace in a cool, dark and dry place.			

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**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	90082-51-2
Alternative Cas Number	8000-46-2
EC number	290-140-0
FEMA No:	2508

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

Identified uses	Industrial, only for professional use
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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
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Pictogram



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

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

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	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.
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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	<p>Workers - Dermal; Short term systemic effects: 5 mg/kg Workers - Inhalation; Short term systemic effects: 16.5 mg/m³ Workers - Dermal; Long term systemic effects: 2.5 mg/kg Workers - Inhalation; Long term systemic effects: 2.8 mg/m³ 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/m³ 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/m³ - ; :</p>
PNEC	<p>- 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</p>

Citral (CAS: 5392-40-5)

DNEL	<p>Workers - Dermal; Long term systemic effects: 1.7 mg/kg Workers - Inhalation; Long term systemic effects: 9 mg/m³ 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/m³</p>
PNEC	<p>- 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</p>

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	Liquid.
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
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No information available.
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10.2. Chemical stability

Stability	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None known.
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10.4. Conditions to avoid

Conditions to avoid	Keep away from heat, sparks and open flame.
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10.5. Incompatible materials

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

Ecotoxicity Harmful to aquatic life with long lasting effects.

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 Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

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.
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Product Specification

PRODUCT DETAILS		
Product Name	ROSE GERANIUM OIL	
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: 90082-51-2	EINECS No: 290-140-0
	Alternative Cas: 8000-46-2	FEMA: 2508
PHYSICAL AND CHEMICAL CHARACTERISTIC		
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	
FRAGRANCE ALLERGENS		
Citral (5392-27-5) 1-5%	Citronellol (106-22-9) 25-43%	Limonene (5989-27-5) <1%
Geraniol (106-24-1) 5-20%	Linalool (78-70-6) 2-8.5%	
FOOD ALLERGENS		
None Present		
IFRA		
Citral (5392-27-5) 1-5%	Citronellol (106-22-9) 25-43%	Limonene (5989-27-5) <1%
Geraniol (106-24-1) 5-20%	Estragole (140-67-0) <0.2%	
STORAGE AND SHELF LIFE		
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.	

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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>10th 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>	