

SDS for Rose Geranium (*Pelargonium graveolens*) Oil

Section 1: Product name and Identification

1.1 Product Name Rose geranium oil

Trade names and synonyms *Pelargonium graveolens* oil

EC-No: 290-140-0

CAS-No EU: 8000-46-2

CAS-No US: 90082-51-2

FEMA-No: 2508

1.2 Relevant identified uses of the substances or mixture Fragrant and/or flavour substance

1.3 Biological definition: *Pelargonium graveolens* Flower Oil is the volatile oil obtained by steam distillation from the flowers of the Bourbon Geranium, *Pelargonium graveolens* (L.), Geraniaceae.

1.4 Details of the supplier of the safety data sheet

Company Name: Ayanda African Oils (Pty) Ltd

Company Address: Windermere Farm, Emoyeni, 3800, South Africa

Date Issued: 17/10/2018

Emergency Telephone Number: +27 353407008, +27 84 4071570, +27 84 6228811

E-mail: mat@ayandoils.com



Section 2: Hazard Identification

2.1.1 Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008

Hazard class and Hazard category	Hazard Statement	
Asp. Tox. 1 (AH 1)	May be fatal if swallowed and enters airways.	H304
Skin Irrit. 2 (SCI 2)	Causes skin irritation.	H315
Skin Sens. 1 (SS 1)	May cause an allergic skin reaction.	H317
Eye Dam. 1 (EDI 1)	Causes serious eye damage.	H318
Aquatic Chronic 3 (EH C3)	Harmful to aquatic life with long lasting effects.	H412

2.1.2 - Additional information

CLP* classification system : According to Regulation (EC) n° 1272/2008 and appendices, and the current version of IFRA* / IOFI* Labelling Manual.

Information taken from specialist publications and information in the company's possession is also taken into account. Other hazards :See the recommendations concerning the storage of classified products .

For the full text of risk phrases, hazard classes and categories, and H and EUH hazard statements, see section 16.





Ayanda

AFRICAN OILS

2.3 Label elements (EC 1272/2008):



GHS07



GHS08



GHS09



GHS05

HAZARD STATEMENT(S)

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.

Ayanda African Oils (Pty)
Reg No: 2017/655786/07
VAT no: 4040281596
Tel. Number: +27 +35 3407008



Signal word

Danger

Precautionary statements

P264 - Wash face, hands and any exposed skin thoroughly after handling

P273 - Avoid release to the environment

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P301 + P312 - IF SWALLOWED: Call a POISON centre or doctor/ physician if you feel unwell

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P330 - Rinse mouth

P332 + P313 - If skin irritation occurs: Get medical advice/ attention

P391 – Collect spillage

P501 - Dispose of contents/ container to an approved waste disposal plant

ADDITIONAL HAZARD INFORMATION(S)

Not regulated

2.3 Other hazards

Allergens (according to cosmetic Directive (2003/15/EC): Citronellol (18,00 to 32,00%), Geraniol (7,00 to 21,00%), Linalool (<= 5,00%), Citral (Geranial + Neral) (<=4,00%), D-Limonene (<= 0,50%)



Section 3: Composition/Information on ingredients

3.1 - Type of product: Matter: NCS, Natural Complex Substance (100% pure and natural), Essential Oil.

Agro-alimentary Organic product certified by Kiwa BCS Oko Germany.

3.2 - Dangerous ingredients

3.2.1 - Classification according to Regulation (EC) n° 1272/2008

Chemical name	EC-No	CAS-No	Weight percent	Classification (67/548/EEC)	GHS Classification (EC 1272/2008)	
Citronellol	203-375-0	106-22-9	<= 32,00 %	N, Xi, R38, R43, R51/53	Skin Irrit. 2, H315; Skin Sens. 1, H317	
Geraniol	203-377-1	106-24-1	<= 21,00 %	Xi, R38, R41, R43	Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1, H317	
Beta caryophyllene	201-746-1	87-44-5	<= 5,00 %	Xn, R65	Asp. Tox. 1, H304	
Linalool	201-134-4	78-70-6	<= 5,00 %	Xi, R38	Skin Irrit. 2, H315	





Ayanda

AFRICAN OILS

Citral (Geranial + Neral)	226- 394-6	5392- 40-5	<= 4,00 %	Xi, R38, R43	Skin Irrit. 2, H315; Skin Sens. 1, H317	
Para cymene	202- 796-7	99-87-6	<= 4,00 %	FL;R10 Xn;R65 N;R51/53	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam Liq. 3 (H226)	
Nerol	203- 378-7	106-25- 2	<= 3,00 %	Xi, R38	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
Alpha Pinene	201- 291-9	80-56-8	<= 2,00 %	FL;R10 Xn;R65 Xi;R43 N;R50/53	Asp. Tox. 1 (H304) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam Liq. 3 (H226)	no data available
Alpha terpineol	202- 680-6	98-55-5	<= 2,00 %	Xi, R38	Skin Irrit. 2, H315; Eye Irrit. 2, H319	

Ayanda African Oils (Pty)
 Reg No: 2017/655786/07
 VAT no: 4040281596
 Tel. Number: +27 +35 3407008



AFRICAN OILS

Citronellyl acetate	205-775-0	150-84-5	<= 2,00 %	N, Xi, R38, R51/53	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 2, H411	
Geranyl acetate	203-341-5	105-87-3	<= 2,00 %	N, R51/53	Aquatic Chronic 2, H411	
Menthone	233-944-9	10458-14-7	<= 2,00 %	R52/53	Aquatic Chronic 3, H412	

For the full text of the Hazard Statements mentioned in this Section, See Section 16

Section 4: First Aid measures

4.1 Discription of First aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance

Eye contact: Wash eyes by normal first aid procedures for at least 15 minutes and consult a physician. If irritation persists or if skin lesions of any kind appear, consult an eye specialist, taking the product with you. If you wear contact lenses, rinse your eyes immediately. The lenses will probably fall out during rinsing. If not, remove them after rinsing. Do not put them back in. If you wear soft contact lenses, throw them away even if new. Hard contact lenses may be used again after proper cleaning by an eyecare professional. In all cases, do not wear contact lenses after the accident without the advice of an eye specialist.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If irritation persists or if skin lesions of any kind appear, seek medical advice.



Ingestion: Clean mouth with water, call a POISON CENTRE or physician. If swallowed, do not induce vomiting

Inhalation: Inhalation may cause coughing, tightness of chest and irritation of the respiratory system. Remove person to ventilated area and follow normal first aid procedures. Perform artificial respiration if breathing has stopped

Notes to physician: Treat symptomatically

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in labelling see section 2.2 and/or section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available Contact a poison specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use alcohol-resistant foam, dry chemical or carbon dioxide. Do not use a direct water jet.

5.2 Special hazards arising from the substances or mixtures

Forms carbon monoxide and/or dioxide upon burning. Possible production of toxic fumes under fire.

5.3 Unusual fire and Explosion Hazards

None, material is not pyrophoric, does not react with water, not an oxygen donor, material is shock stable



5.4 Advice for fire-fighters

Cool container exposed to the flame with water fog. Fire fighters should wear positive pressure self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Do not attempt to fight the fire with water, which tends to feed rather than smother the flames. Essential oils have the ability to float on water and this causes the fire to propagate more quickly. To put out an essential oil-based fire in its early stages, use a specific ABC dry powder fire extinguisher (or equivalent). Small fires can be smothered by covering with earth, sand or a blanket.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains, water courses or onto the ground.

See Section 12 for additional Ecological Information

6.3 Methods and materials for containment and cleaning up

Small spills can be wiped up with paper rags (placed in closed metal waste container). Large spill: contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Large spills can also be collected with non combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and placed in metal container for disposal according to local/National regulations (see section 13).



7. Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Ensure adequate ventilation. If the ventilation system is inadequate, wear an appropriate respiratory protection device. Handle in accordance with good industrial hygiene and safety practise.

For precautions see section 2.5

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place, keep container tightly closed in a dry and well-ventilated place. Store away from direct sunlight.

Store in stainless steel container, opaque glass container or Fluorinated HDPE container.

Stabilizers : Store under a nitrogen blanket if possible.

Air and light sensitive.

Storage class (TRGS 510): Combustible liquids

7.3 Environment

Avoid discharge into the environment. Work in containment area. Use an appropriate container to avoid contaminating the surrounding environment.

7.4 Specific end use(s)

Apart from the mentioned in section 1.2 no other specific uses are stipulated



Section 8. Exposure controls/ Personal protection

8.1 Control parameters

8.1.1 - Occupational exposure limits (INRS*, ND2098, Directive 91/322/EC and 2000/39/EC)

Not regulated. No specific exposure limits for this product.

8.1.2 - Biological limit values (database of chemicals GESTIS: www.dguv.de)

Not regulated. No biological limit values established for this product.

A chemical safety report (CSR) is not required according to the regulations. DNEL* and PNEC* are therefore not applicable to this product.

8.2 Exposure control

Engineering measures: Ensure adequate ventilation, especially in confined areas

Eye protection: Tightly fitting safety goggles

Hand protection: Protective gloves

Skin and body protection: Wear suitable protective clothing

Respiratory protection: In cases of insufficient ventilation wear suitable respiratory equipment, otherwise none under normal use conditions

Hygiene measures: Handle in accordance with good industrial hygiene and safety practise

Environmental exposure controls The product should not be allowed to enter drains, water courses or the soil



Section 9: Physical and chemical properties

Information on basic physical and chemical properties

a) Appearance	Form: liquid
	Colour: Clear green to dark green
b) Odour	Note of rose, fruity
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	+64 °C (closed cup)
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	
l) Vapour density	Greater than air
m) Water solubility	insoluble
n) Partition coefficient: noctanol/water	No data available
o) Auto-ignition temperature	No data available
p) Decomposition temperature	No data available
q) Viscosity	No data available
r) Explosive properties	No data available
s) Oxidizing properties	No data available
t) Specific gravity (@ 20°C)	0,883 to 0,905





Ayanda

AFRICAN OILS

u) Refractive Index (@ 20°C)

1,461 to 1,477

v) Optical rotation (@ 20°C)

-18 ° to -8 °

Main ingredients

Citronellol (18,00 to 32,00%)

Geraniol (7,00 to 21,00%)

Citronellyl formiate (5,00 to 16,00%)

Guaiadiene (3,00 to 12,00%)

Isomenthone (<= 10,00%)

Section 10: Stability and reactivity:

10.1 Reactivity

Material does not react with water

10.2 Chemical stability

Stable under normal circumstances

10.3 Possibility of hazardous reactions:

No data available

10.4 Conditions to avoid

Heat, flames and sparks.

Exposure to air or moisture over prolonged periods

10.5 Incompatible materials

Strong oxidising agents

10.6 Hazardous decomposition products

May produce toxic gases (hydrocarbons, carbon oxide) upon burning



Section 11: Toxicological information

Potential health effects

<i>Inhalation</i>	None known
<i>Eye contact</i>	Causes serious eye damage.
<i>Skin contact</i>	Causes skin irritation.
<i>Ingestion</i>	Harmful if swallowed. Potential for aspiration if swallowed Lethal dose 15kg (child) 32mL Lethal dose 70kg (adult) 148mL
<i>Germ cell mutagenicity</i>	None known
<i>Aspiration hazard</i>	May be fatal if swallowed and enters airways.

Information on toxicological effects

Acute toxicity:

LD50 Oral – Rat – $\geq 5\,000$ mg/kg

LD50 Dermal – Rabbit – 2 500 mg/kg

Carcinogenicity

No significant effects or critical hazards.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

Inhalation May cause respiratory irritation

Specific target organ toxicity – repeated exposure

No data available



Section 12: Ecological information

Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Aquatic toxicity

Aquatic toxicity	Effect dose	Exposure time	Results	Methods
Acute fish toxicity	LC50	96h	N.A.	/
Acute daphnia toxicity	EC50	48h	7,60 mg/l/48h	Acute immobilisation test
Acute algae toxicity	IC50	72h	N.A.	/

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

To our knowledge, no such assessment has been carried out on this product to date.



Other adverse effects

Water hazardous class (WGK*) according to Annex 2 of the German directive Hazardous Materials (No. carac.: 814; 17.05.1999 organics materials): 2

Section 13 Disposal considerations

Product

Small spills can be wiped up with paper rags (placed in closed metal waste container). Large spill: contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Large spills can also be collected with non combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and placed in metal container for disposal according to local/National regulations. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solution to a licensed disposal company.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal

Section 14 Transport information

Sea (IMDG)

Proper shipping name	Extract, aromatic, Liquid
IMDG Class	9
UN/ID No	3082
Packing group	III
Marine pollutant	Yes



Land (ADR)

Proper shipping name	Extract, aromatic, Liquid
ADR/RID Class	9
UN/ID No	3082
Packing group	III

Air (IATA)

Proper shipping name	Extract, aromatic, Liquid
ICAO/IATA Class	9
UN/ID No	3082
Packing group	III

Additional information

Customs rate code : 3301 29 41 00

Section 15 Regulatory information**EU DIRECTIVES**

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), establishing a European Chemicals Agency, amending Directive

1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC 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.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

Legend

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ADR/RID: Agreement on Dangerous Goods by Road / Regulations concerning the Intl Transport of Dangerous Goods by Rail

ATEX: European explosive atmospheres directive

CMR: Carcinogenic, Mutagenic, Reprotoxic

DNEL: Derived No Effect Level

IATA-DGR: International Air Transport Association - Dangerous Goods Regulations

IFRA: International Fragrance Association

IMDG: International Maritime Dangerous Goods

GC: Gas Chromatography

PBT: Persistent Bioaccumulating Toxicants

PNEC: Predicted No Effect Concentration

STOT: Specific Target Organ Toxicity

vPvB: Very Persistent and Very Bioaccumulative substance





AFRICAN OILS

WGK: Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Section 16

Shelf life: 36 months when stored within advised conditions

Xn: Harmful

Xi: Irritant

N: Substances or preparation that are dangerous for the environment

R10: Flammable

R22: Harmful if Swallowed

R36/37/38: Irritating to Eyes, respiratory system and skin

R43 - May cause sensitisation by skin contact

R65 - Harmful: may cause lung damage if swallowed

FL – Flammable liquid

Risk Combination Phrases

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

HAZARD STATEMENT(S)

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

Ayanda African Oils (Pty)
Reg No: 2017/655786/07
VAT no: 4040281596
Tel. Number: +27 +35 3407008





Issuing date: 17/10/2018

Revision Date:

Revision Note: not applicable

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text

Ayanda African Oils (Pty)
Reg No: 2017/655786/07
VAT no: 4040281596
Tel. Number: +27 +35 3407008

