

Lemon grass (Cymbopogon citratus) SDS

Section 1: Product name and Identification

1.1 Product Name Lemon grass oil (Cymbopogon citratus)

Trade names and synonyms Cymbopogon citratus leaf oil

EINECS NUMBER: 289-752-0

CAS NUMBER: 8007-02-1

CAS EINECS : 89998-14-1

INCI: Cymbopogon Citratus Leaf Oil

FEMA: 2624

1.2 Relevant identified uses of the substances or mixture

Fragrant and/or flavour substance

1.3 Biological definition: Lemon grass oil is a 100% natural product obtained by steam distillation of the grass leaves from Cymbopogon citratus

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: 26/09/2018

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Section 2: Hazard Identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008	Category	
Skin Irrit. 2 -	Category 2	H315
Skin Sens. 1	Category 1	H317
Eye Dam. 1 -	Category 1	H318
Aquatic Chronic 2 (EH C2)	Category 2	H411

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.



2.2 Label elements (EC 1272/2008):

Hazardous pictogram(s)



GHS07

GHS08

GHS09

Hazard Statements

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage.

H411 - Toxic to aquatic life with long-lasting effects

Signal word

Danger

2.5 Precautionary statements

P273 Avoid release to the environment.

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

P261 Avoid breathing vapour/spray.



P264 Wash contaminated skin thoroughly after handling.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs : Get medical advice

Additional Hazard information

Not regulated

2.3 - Other hazards

CMR* substances not requiring classification : None

Allergens (according to Annex III of Regulation(EC) N°1223/2009):

Citral (Geranial + Neral) N° CAS 5392-40-5 less than 75%

Citronellol N° CAS 106-22-9 less than 1%

Geraniol N° CAS 106-24-1 less than 3%

Limonene N° CAS 5989-27-5 less than 1%

Linalool N° CAS 78-70-6 less than 1%



Section 3: Composition/Information on ingredients

Chemical name	EC-No	CAS-No	Weight percent	Classification (67/548/EEC)	GHS Classification (EC 1272/2008)	REACH Registration Number
Citral	226-394-6	5392-40-5	Less than 75%	Xi; R36/R37/R38 R43	Skin Irrit. 2 (H315) Eye Irrit. 2 – (H319) Skin Sens. 1 - H317	no data available
Myrcene	204-622-5	123-35-3	1%-20%	Flammable Liquids (Category 3) Skin irritation (Category 2) Eye irritant (Category 2A) Aspiration Toxic (Category 1) Specific target organ toxicity-single exposure (Category 3)	H226 H315 H319 H335	no data available





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Geraniol	203-377-1	106-24-1	Less than 3%	XI;R38; R41;R43; S24;S26;S37; S39	Skin Irrit. 2 - H315, Eye Dam. 1 - H318, Skin Sens. 1 - H317	no data available
Linalool	201-134-4	78-70-6	Less than 2%	Xi R36/R37/R38	Skin Irrit. 2 (H315) Eye Irrit.2 (H319)	no data available

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 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.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes

Ingestion: Clean mouth with water, call a POISON CENTRE or physician. If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head low down to prevent aspiration into the lungs.

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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 special treatment necessary. Symptomatic treatment required. 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 direct injection of water.

5.2 Special hazards arising from the substances or mixtures

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.



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. 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 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

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

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: Yellow to a brownish colour
b) Odour	Fruity lemon like aroma
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezingpoint	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	+71 °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	No data available
l) Vapour density	Greater than air
m) Relative density	0.867-0.899 g/cm ³
n) Water solubility	insoluble
o) Partition coefficient: noctanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available





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r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available
u) Specific gravity (@ 20°C)	0.867-0.899
v) Refractive Index (@ 20°C)	1.47500 to 1.49700
w) Optical rotation (@ 20°C)	-1°to +10°

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, PVC
10.6 Hazardous decomposition products	May produce toxic gases (hydrocarbons, carbon oxide) upon burning

Section 11: Toxicological information

Information on toxicological effects

Potential health effects

<i>Inhalation</i>	In high concentrations, vapours may irritate throat and respiratory system and cause coughing
<i>Eye contact</i>	Spray and vapour in the eyes may cause irritation and smarting
<i>Skin contact</i>	BEOA CHIP guidance (1997) gives hazard codes as R22 and R38

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Ingestion

No specific health warning noted. No harmful effects expected in amounts likely to be ingested.

Germ cell mutagenicity

None known

Information on toxicological effects

Acute toxicity:

LD50 Oral – Rat – 5000mg/kg

LD50 Dermal – Rabbit – 5000mg/kg

Carcinogenicity

No significant effects or critical hazards.

Reproductive toxicity

No significant effects or critical hazards.

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

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Other adverse effects

No data available

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.





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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
Hazardous class	9
UN/ID No	3082
Packing group	III

Land (ADR)

Proper shipping name	Extract, aromatic, Liquid
Hazardous class	9
UN/ID No	3082
Packing group	III

Air (IATA)

UN/ID No	3082
Proper shipping name	Extract, aromatic, Liquid
Hazardous class	9
Packing group	III



Section 15 Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

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.



Section 16 Other information:

Abbreviations:

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

ATEX : European explosive atmospheres directive

CLP : Classification Labelling Packaging

CMR : Carcinogenic, Mutagenic, Reprotoxic

DNEL : Derived No Effect Level

DSD : Dangerous Substances Directive

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

ICCT : Ilo Chemical Control Toolkit

ICAO-TI : International Civil Aviation Organization - Technical Instructions

IFRA : International Fragrance Association

IMDG : International Maritime Dangerous Goods

INRS : Institut National de Recherche et de Sécurité

IOFI : International Organization of the Flavor Industry

GC : Gas Chromatography

PBT : Persistent Bioaccumulating Toxicants

PNEC : Predicted No Effect Concentration

RIFM : Research Institute for Fragrance Materials

STOT : Specific Target Organ Toxicity

vPvB : Very Persistent and Very Bioaccumulative substance



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

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

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

H226 - Flammable liquid and vapour

H302 - Harmful if swallowed

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

H400 – Very toxic to aquatic life

H411 – Toxic to aquatic life with long lasting effects





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Revision Note: not applicable

Disclaimer

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