AROMOLOGY

SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Product Identifier

Parameter	Details
Product Name	Palmarosa Essential Oil
Common Names	Palmarosa Oil, East Indian Geranium Oil, Rose Grass Oil
Botanical Name	*Cymbopogon martinii* (Roxb.) Wats. var. *motia*
INCI Name	Cymbopogon Martini Oil
Product Type	Natural Essential Oil / Natural Complex Substance
Plant Part	Fresh or partially dried aerial parts and flowering grass
Extraction Method	Steam distillation
Primary CAS Number	8014-19-5
EC Numbers	283-461-2
FEMA Number	2831
Country of Origin	India
Physical Form	Mobile liquid

Palmarosa Essential Oil is obtained by steam distillation of the aerial parts of *Cymbopogon martinii*. It is naturally rich in geraniol and is characterised by a sweet floral, rosy, geranium-like and lightly citrus-green odour.

1.2 Relevant Identified Uses

- Professional perfumery
- Fine-fragrance formulation
- Cosmetic fragrance compositions
- Soap and detergent fragrance
- Personal-care products
- Home fragrance
- Aromatic products
- Fragrance research and development

1.3 Uses Advised Against

- Internal consumption
- Undiluted application to skin

- Pharmaceutical use
- Use by children without professional supervision
- Food or flavour use unless separately approved
- Any use without an appropriate finished-product safety assessment

1.4 Supplier Details

Aromology Trading LLC
G05 Al Ghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates

Website: www.aromology.com
Email: info@aromology.com
Telephone: +971 505197601

1.5 Emergency Telephone Number

Contact the local Poison Control Centre, emergency medical services or an appropriately qualified medical professional.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Representative classification according to Regulation (EC) No. 1272/2008:

Hazard Class	Classification
Skin Irritation	Category 2
Serious Eye Damage	Category 1
Skin Sensitisation	Category 1
Hazardous to the Aquatic Environment – Chronic	Category 3

Hazard Statements

- 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.

This classification is representative of current commercial Palmarosa Essential Oil safety documentation and may vary slightly according to the precise batch composition and supplier classification.

2.2 Label Elements

Signal Word

Danger

Hazard Pictogram

GHS05 – Corrosion
GHS07 – Exclamation Mark

Hazard Statements

- 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

- P261: Avoid breathing vapours or mist.
- P264: Wash hands and exposed skin thoroughly after handling.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves, protective clothing and eye or face protection.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P333+P313: If skin irritation or rash occurs: Get medical advice.
- P362+P364: Take off contaminated clothing and wash it before reuse.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310: Immediately call a Poison Control Centre or physician.
- P501: Dispose of contents and container in accordance with applicable regulations.

Supplemental Information

Contains naturally occurring:

- Geraniol
- Geranyl acetate
- Linalool

- Citral
- Citronellol
- Farnesol
- β-Caryophyllene

May produce an allergic reaction.

2.3 Other Hazards

- Natural composition varies according to crop, origin, climate and distillation conditions.
- Oxidised essential oil may have increased sensitising potential.
- Combustible when heated.
- Vapours may be irritating at elevated temperatures.
- Product is not expected to meet PBT or vPvB criteria based on available information.
- No endocrine-disrupting properties have been established for the complete natural oil.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance / Natural Complex Substance

Component	CAS Number	Representative Content
Palmarosa Essential Oil	8014-19-5	100%

3.2 Representative Naturally Occurring Constituents

Constituent	CAS Number	Representative Range
Geraniol	106-24-1	70–85%
Geranyl Acetate	105-87-3	5–15%
Linalool	78-70-6	1–5%
β-Caryophyllene	87-44-5	0.5–3%
Farnesol	4602-84-0	0.1–2%
Citronellol	106-22-9	0.1–2%
Citral	5392-40-5	Trace–1%
Limonene	5989-27-5	Trace–1%

Palmarosa Essential Oil is normally dominated by geraniol, frequently at approximately 75–85%, although the actual constituent profile is batch dependent.

The exact composition and allergen content must be confirmed using batch-specific GC/MS analysis.

SECTION 4: FIRST-AID MEASURES

4.1 Description of First-Aid Measures

After Inhalation

- Move the affected person to fresh air.
- Keep the person warm and at rest.
- Obtain medical attention if coughing, dizziness or respiratory discomfort persists.

After Skin Contact

- Remove contaminated clothing and footwear.
- Wash affected skin thoroughly with soap and plenty of water.
- Do not use organic solvents to clean the skin.
- Obtain medical advice if redness, irritation or an allergic reaction develops.

After Eye Contact

- Immediately rinse cautiously with clean water for at least 15 minutes.
- Remove contact lenses if present and easy to do.
- Continue rinsing while keeping the eyelids open.
- Obtain immediate medical attention due to the risk of serious eye damage.

After Ingestion

- Rinse the mouth thoroughly.
- Do not induce vomiting.
- Never give anything by mouth to an unconscious person.
- Contact a physician or Poison Control Centre immediately.

4.2 Most Important Symptoms and Effects

Possible symptoms include:

- Skin redness, burning or irritation
- Itching, rash or allergic dermatitis
- Severe eye pain, watering or redness
- Potential eye injury
- Nausea, vomiting or gastrointestinal discomfort

- Headache or respiratory irritation following excessive vapour exposure

4.3 Indication of Immediate Medical Attention

Treat symptomatically.

Immediate medical evaluation is recommended following significant eye exposure, ingestion or development of an allergic reaction.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Use:

- Alcohol-resistant foam
- Carbon dioxide
- Dry chemical powder
- Water fog

5.2 Unsuitable Extinguishing Media

Do not use a direct high-pressure water jet, as this may spread the burning oil.

5.3 Specific Hazards

Combustion or thermal decomposition may produce:

- Carbon monoxide
- Carbon dioxide
- Irritating organic vapours
- Dense smoke
- Aldehydes and other unidentified decomposition products

5.4 Advice for Firefighters

- Wear self-contained breathing apparatus.
- Wear full protective clothing.
- Cool exposed containers using water spray.
- Prevent contaminated firefighting water from entering drains and waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

- Ensure adequate ventilation.
- Keep unnecessary personnel away.
- Avoid breathing vapours or mist.
- Avoid contact with skin and eyes.
- Wear protective gloves, clothing and eye or face protection.
- Remove ignition sources.

6.2 Environmental Precautions

- Prevent entry into drains, waterways, soil and groundwater.
- Contain significant spills.
- Notify the relevant environmental authority if uncontrolled release occurs.

6.3 Methods for Containment and Cleaning

- Contain the spill with sand, earth, vermiculite or another inert absorbent.
- Collect into a suitable, sealed and labelled waste container.
- Wash the affected surface using detergent and water.
- Do not use combustible absorbent materials such as sawdust.
- Dispose of contaminated materials through an authorised waste contractor.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

- Handle in a well-ventilated area.
- Avoid inhalation of vapours and prolonged skin contact.
- Avoid all contact with the eyes.
- Wear chemical-resistant gloves and eye or face protection.
- Do not eat, drink or smoke in handling areas.
- Wash hands after use.
- Keep containers closed when not in use.
- Use clean, dry and non-reactive dispensing equipment.
- Avoid environmental release.
- Prevent oxidation by minimising exposure to air.

7.2 Conditions for Safe Storage

Store:

- In tightly closed original or compatible containers
- In a cool, dry and well-ventilated location
- Protected from sunlight, air and moisture
- Away from ignition sources
- Away from strong oxidising agents
- Preferably between 5°C and 20°C

Use nitrogen blanketing for bulk storage where appropriate.

7.3 Specific End Uses

For professional perfumery and cosmetic formulation.

The safe concentration in a finished product must be established through an appropriate IFRA and cosmetic safety assessment.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

No occupational exposure limit has been established for the complete natural essential oil.

Exposure to vapours, aerosols and direct contact should be minimised.

8.2 Engineering Controls

- Provide adequate general ventilation.
- Use local exhaust ventilation where the product is heated, sprayed or handled in bulk.
- Provide accessible eyewash and emergency washing facilities.

8.3 Personal Protective Equipment

Eye and Face Protection

Wear tightly fitting chemical safety goggles.

A face shield is recommended when splash exposure is possible.

Hand Protection

Wear chemical-resistant gloves such as:

- Nitrile rubber
- Neoprene
- Butyl rubber

Replace contaminated or damaged gloves.

Skin and Body Protection

Wear protective clothing suitable for the quantity handled.

Respiratory Protection

Normally not required under adequate ventilation.

Use an approved organic-vapour respirator where ventilation is insufficient or vapours are generated by heating.

Hygiene Measures

- Wash hands and exposed skin after handling.
- Remove contaminated clothing immediately.
- Wash contaminated workwear before reuse.
- Keep away from food, beverages and animal feed.

Environmental Exposure Controls

Prevent uncontrolled discharge to drains, waterways and soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Representative Information
Physical State	Mobile liquid
Appearance	Clear, pale yellow to yellow liquid
Odour	Sweet, floral, rosy, geranium-like, grassy and lightly citrus
Odour Threshold	Not determined
Melting / Freezing Point	Not determined
Initial Boiling Point	Not determined for the natural mixture
Flammability	Combustible liquid
Explosive Limits	Not determined

Flash Point	Typically above 90°C
Auto-Ignition Temperature	Not determined
Decomposition Temperature	Not determined
pH	Not applicable
Kinematic Viscosity	Not determined
Water Solubility	Insoluble or practically insoluble
Solubility in Ethanol	Soluble
Vapour Pressure	Low at ambient temperature
Relative Density at 20°C	Approximately 0.880–0.900
Refractive Index at 20°C	Approximately 1.470–1.480
Optical Rotation	Batch dependent
Particle Characteristics	Not applicable

Published reference values describe Palmarosa Oil as a pale-yellow liquid with density around 0.887 and refractive index near 1.47. Batch-specific analytical values must take precedence.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactivity is expected under normal storage and handling conditions.

10.2 Chemical Stability

Stable when stored tightly closed and protected from heat, light and air.

The product may oxidise over time, increasing its sensitisation potential.

10.3 Possibility of Hazardous Reactions

Hazardous polymerisation is not expected.

May react with strong oxidising agents.

10.4 Conditions to Avoid

Avoid:

- Excessive heat
- Direct sunlight

- Open flames
- Sparks
- Prolonged exposure to air
- Contamination
- Repeated heating

10.5 Incompatible Materials

- Strong oxidising agents
- Strong acids
- Strong alkalis
- Reactive chemicals

10.6 Hazardous Decomposition Products

Thermal decomposition may produce carbon monoxide, carbon dioxide, smoke and irritating organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Hazard Classes

Acute Toxicity

The complete natural essential oil is not generally classified for acute toxicity based on representative available data.

Skin Corrosion / Irritation

Causes skin irritation.

Serious Eye Damage / Irritation

Causes serious eye damage.

Respiratory or Skin Sensitisation

May cause an allergic skin reaction.

The naturally high geraniol content contributes significantly to sensitisation and eye-hazard classification.

Germ-Cell Mutagenicity

No classification established for the complete natural oil.

Carcinogenicity

No classification established for the complete natural oil.

Reproductive Toxicity

No classification established for the complete natural oil.

Specific Target Organ Toxicity – Single Exposure

Not classified based on available information.

Specific Target Organ Toxicity – Repeated Exposure

Not classified based on available information.

Aspiration Hazard

Not classified based on available information.

11.2 Likely Routes of Exposure

- Skin contact
- Eye contact
- Inhalation of vapours or mist
- Accidental ingestion

11.3 Symptoms Related to Exposure

- Skin irritation
- Allergic dermatitis
- Eye pain and watering
- Potential serious eye injury
- Headache or dizziness following excessive vapour exposure
- Gastrointestinal discomfort after ingestion

11.4 Endocrine-Disrupting Properties

No endocrine-disrupting properties have been established for the complete natural material.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Harmful to aquatic life with long-lasting effects.

12.2 Persistence and Degradability

Many natural constituents are expected to be biodegradable, but complete batch-specific degradation data are unavailable.

Oxidation and degradation rates vary among constituents.

12.3 Bioaccumulative Potential

Some lipophilic terpene constituents may have potential to bioaccumulate.

12.4 Mobility in Soil

The product is poorly soluble in water and may adsorb to soil and sediment.

12.5 PBT and vPvB Assessment

The complete natural essential oil is not expected to meet PBT or vPvB criteria based on currently available information.

12.6 Endocrine-Disrupting Properties

No confirmed endocrine-disrupting properties have been identified for the complete product.

12.7 Other Adverse Effects

Avoid uncontrolled release into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

- Dispose of unused product through an authorised chemical-waste contractor.
- Do not discharge into drains, waterways or soil.
- Incineration may be appropriate where legally permitted.
- Dispose of contaminated absorbents as chemical waste.

- Empty containers may retain hazardous residues.

13.2 Contaminated Packaging

Dispose of or recycle packaging according to local regulations after appropriate cleaning.

Do not reuse contaminated containers for food, beverages or household purposes.

SECTION 14: TRANSPORT INFORMATION

Based on the representative classification **Aquatic Chronic 3, H412**, the material is generally not classified as dangerous goods for transport. The actual supplier SDS and batch classification must be checked before shipment.

Transport Information	Representative Status
UN Number	Not regulated
UN Proper Shipping Name	Not regulated
Transport Hazard Class	Not applicable
Packing Group	Not applicable
Environmental Hazard for Transport	Not classified
Marine Pollutant	No
Special Precautions	Protect from heat, leakage and container damage
Bulk Transport	Not intended for bulk transport

SECTION 15: REGULATORY INFORMATION

15.1 Applicable Regulations

Prepared with reference to:

- Regulation (EC) No. 1907/2006 – REACH
- Regulation (EU) 2020/878
- Regulation (EC) No. 1272/2008 – CLP
- Regulation (EC) No. 1223/2009 on cosmetic products
- Regulation (EU) 2023/1545 regarding fragrance-allergen labelling
- Current IFRA Standards
- Applicable ADR, RID, IMDG and IATA transport provisions

15.2 Chemical Safety Assessment

A formal chemical safety assessment has not been performed by Aromology Trading LLC for the complete Natural Complex Substance.

Finished-product manufacturers are responsible for:

- Confirming batch-specific composition
- Reviewing the original manufacturer's current SDS
- Calculating applicable IFRA restrictions
- Determining allergen labelling
- Conducting the final cosmetic-product safety assessment

SECTION 16: OTHER INFORMATION

16.1 Full Text of Hazard Statements

- 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.

16.2 Abbreviations

Abbreviation	Meaning
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulation
EC	European Community
FEMA	Flavor and Extract Manufacturers Association
GC/MS	Gas Chromatography–Mass Spectrometry
IATA	International Air Transport Association
IFRA	International Fragrance Association
IMDG	International Maritime Dangerous Goods Code
INCI	International Nomenclature of Cosmetic Ingredients
NCS	Natural Complex Substance
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
vPvB	Very Persistent and Very Bioaccumulative

16.3 Recommended Shelf Life

24 months from the manufacturing date when stored unopened under recommended conditions.

16.4 Issue Date

22 July 2026

16.5 Revision

Version 1.0

DISCLAIMER

This Safety Data Sheet has been prepared using representative botanical, compositional and commercial safety information for Palmarosa Essential Oil.

Palmarosa Essential Oil is a Natural Complex Substance. Its exact composition, physical characteristics and hazard classification may vary according to:

- Botanical variety
- Geographical origin
- Climate and cultivation conditions
- Harvest maturity
- Distillation conditions
- Storage and oxidation
- Individual production batch

The original manufacturer's current batch-specific Safety Data Sheet, Certificate of Analysis, GC/MS report, IFRA statement and allergen declaration must take precedence wherever available.

The product is supplied exclusively as a professional perfumery raw material. It is not intended for internal consumption or direct undiluted application.

Aromology Trading LLC accepts no responsibility for inappropriate handling, formulation, storage, labelling or use outside the recommended professional applications.

AUTHORISED BY

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