



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

Item	Details
Product Name	Geranium Essential Oil
Alternative Names	Egyptian Geranium Oil, Rose Geranium Essential Oil, Geranium Rose Oil
Botanical Name	<i>Pelargonium graveolens</i> L'Hér.
Alternative Botanical Name	<i>Pelargonium asperum</i>
INCI Name	Pelargonium Graveolens Oil
EU Regulatory INCI Name	Pelargonium Graveolens Flower Oil
CAS Number	8000-46-2
EC Number	290-140-0
FEMA Number	2508
Country of Origin	Egypt
Plant Part	Leaves and flowering aerial parts
Extraction Method	Steam distillation
Product Type	100% pure and natural essential oil
Recommended Use	Professional perfumery, fragrance manufacture, cosmetics, soaps and personal-care formulations
Uses Advised Against	Internal consumption, direct undiluted skin application, uncontrolled household use and use by children

Geranium essential oil is commonly identified under CAS 90082-51-2 or 8000-46-2, EC 290-140-0 and FEMA 2508. Published specifications also identify the material as a steam-distilled essential oil of *Pelargonium graveolens*.

SUPPLIER DETAILS

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SECTION 2: HAZARD IDENTIFICATION

Classification According to Regulation (EC) No. 1272/2008 – CLP

Geranium Essential Oil is a botanical Natural Complex Substance. Its precise classification may vary according to the concentration of citronellol, geraniol, linalool, limonene, pinene and other naturally occurring constituents in the actual batch.

The following conservative classification is applied:

Hazard Class	Category	Hazard Statement
Skin irritation	Category 2	H315: Causes skin irritation
Serious eye damage	Category 1	H318: Causes serious eye damage
Skin sensitisation	Category 1	H317: May cause an allergic skin reaction
Hazardous to the aquatic environment – chronic	Category 2	H411: Toxic to aquatic life with long-lasting effects

Published geranium essential-oil SDS documentation commonly identifies skin-irritation, sensitisation, eye-damage or eye-irritation hazards and aquatic environmental hazards.

Signal Word

DANGER

Hazard Pictograms

- GHS05 – Corrosion
- GHS07 – Exclamation Mark
- GHS09 – Environment

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.

Precautionary Statements

Prevention



- P261: Avoid breathing vapour, mist or spray.
- 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 and eye or face protection.

Response

- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P333+P313: If skin irritation or rash occurs, obtain medical advice.
- P362+P364: Remove contaminated clothing and wash it before reuse.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses when present and easy to do. Continue rinsing.
- P310: Immediately call a POISON CENTRE or physician.
- P391: Collect spillage.

Disposal

- P501: Dispose of contents and container in accordance with applicable regulations.

Other Hazards

Oxidation resulting from exposure to air, light or heat may increase the sensitising potential of naturally occurring terpene constituents.

This product is not intended for internal consumption.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Component	CAS Number	EC Number	Concentration
Pelargonium Graveolens Oil	8000-46-2	290-140-0	100%

Typical Naturally Occurring Constituents

Constituent	CAS Number	Indicative Range
Citronellol	106-22-9	20–45%
Geraniol	106-24-1	10–25%
Citronellyl Formate	105-85-1	5–15%
Isomenthone	491-07-6	4–12%
Linalool	78-70-6	3–12%
Geranyl Formate	105-86-2	2–8%
Menthone	10458-14-7	1–6%



Nerol	106-25-2	0.5–5%
Geranyl Acetate	105-87-3	Trace–3%
Citronellyl Tiglate	24717-85-9	Trace–4%
Beta-Caryophyllene	87-44-5	Trace–2%
Limonene	138-86-3	Trace–2%
Alpha-Pinene	80-56-8	Trace–1%
Beta-Pinene	127-91-3	Trace–1%
Citral	5392-40-5	Trace–0.5%
Eugenol	97-53-0	Trace–0.3%

Citronellol, geraniol, linalool and related esters are recognised major components of geranium rose oil. The exact proportions vary according to cultivar, climate, harvest and distillation conditions.

SECTION 4: FIRST-AID MEASURES

Inhalation

Move the affected person to fresh air and keep them comfortable for breathing.

Seek medical attention if coughing, headache, dizziness, nausea or respiratory discomfort persists.

Skin Contact

Remove contaminated clothing and footwear.

Wash the affected skin thoroughly with soap and plenty of water.

If irritation, redness, itching or rash develops, obtain medical advice.

Wash contaminated clothing before reuse.

Eye Contact

Immediately rinse cautiously with clean water for at least 15 minutes.

Remove contact lenses when present and easy to do. Continue rinsing.

Obtain immediate medical attention or contact a poison centre.

Ingestion



Rinse the mouth thoroughly with water.

Do not induce vomiting unless instructed by qualified medical personnel.

Contact a physician or poison centre if a significant quantity has been swallowed or symptoms occur.

Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects

Possible symptoms include:

- Skin redness, burning or irritation
- Itching or allergic rash
- Serious eye pain and tearing
- Possible corneal injury
- Headache, dizziness or nausea
- Gastrointestinal discomfort following ingestion

Advice to Medical Personnel

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

- Carbon dioxide
- Dry chemical powder
- Alcohol-resistant foam
- Fine water spray for cooling exposed containers

Unsuitable Extinguishing Media

Do not use a direct high-pressure water jet because it may spread burning liquid.

Specific Fire Hazards

The product is combustible and may ignite when exposed to sufficient heat or flame.

Combustion or thermal decomposition may produce:



- Carbon monoxide
- Carbon dioxide
- Dense smoke
- Irritating organic vapours
- Unidentified decomposition products

Protective Equipment for Firefighters

Wear self-contained breathing apparatus and full protective clothing.

Cool fire-exposed containers with water spray.

Prevent contaminated fire-fighting water from entering drains, soil or waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

- Ensure adequate ventilation.
- Avoid breathing vapour, mist or aerosol.
- Avoid contact with skin and eyes.
- Wear chemical-resistant gloves and eye protection.
- Remove unnecessary personnel.
- Eliminate flames, sparks and other ignition sources.

Environmental Precautions

Prevent the product from entering:

- Drains
- Sewers
- Surface water
- Groundwater
- Soil

Notify the appropriate authorities if a significant release enters the environment.

Containment and Cleaning

Contain and absorb the spill using inert, non-combustible material such as:

- Sand
- Vermiculite
- Diatomaceous earth



- Commercial oil absorbent

Transfer the collected material into a suitable, labelled waste container.

Clean the affected surface with detergent and water while preventing contaminated wash water from entering drains.

Reference to Other Sections

Refer to Section 8 for personal protection and Section 13 for disposal requirements.

SECTION 7: HANDLING AND STORAGE

Safe Handling

- Use in a well-ventilated area.
- Avoid breathing concentrated vapour, mist or spray.
- Avoid direct skin and eye contact.
- Wear appropriate gloves and eye protection.
- Do not eat, drink or smoke while handling.
- Wash hands thoroughly after use.
- Keep containers tightly closed when not in use.
- Use clean, dry and odour-free equipment.
- Prevent contamination with moisture or incompatible materials.
- Avoid uncontrolled environmental release.
- Do not use internally.

Storage Conditions

Store:

- In the original tightly closed container
- In a cool, dry and well-ventilated place
- Away from direct sunlight
- Away from excessive heat and ignition sources
- Away from strong oxidising agents
- Separately from food and beverages
- Out of reach of children

Recommended Storage Temperature

Store at approximately **10–25°C**, unless otherwise specified in the batch documentation.

Minimise container headspace and prolonged exposure to air to reduce oxidation.



SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

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

Applicable occupational exposure limits for individual constituents must be observed where required.

Engineering Controls

Provide adequate general ventilation.

Use local exhaust ventilation where concentrated vapour, mist or aerosol may be generated.

Ensure eyewash and emergency washing facilities are available near the handling area.

Personal Protective Equipment

Protection Type	Recommendation
Eye and face protection	Chemical splash goggles; face shield during bulk handling
Hand protection	Chemical-resistant nitrile gloves
Skin protection	Laboratory coat, apron or suitable protective work clothing
Respiratory protection	Normally unnecessary with adequate ventilation; use an approved organic-vapour respirator where ventilation is insufficient
Hygiene measures	Wash hands and exposed skin after handling and before eating, drinking or smoking

Replace contaminated gloves or clothing promptly.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical Specification
Physical state	Liquid
Appearance	Clear, mobile liquid
Colour	Pale yellow to yellow-green or greenish amber
Odour	Strong, fresh, rosy, green, herbaceous and slightly minty
Odour threshold	Not determined



Relative density at 20 °C	Approximately 0.880–0.910
Refractive index at 20 °C	Approximately 1.461–1.475
Optical rotation at 20 °C	Batch dependent
Flash point	Generally above approximately 70 °C; batch-specific result required
Initial boiling point	Not determined for the natural mixture
Melting/freezing point	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Water solubility	Insoluble or practically insoluble
Solubility in alcohol	Soluble or dispersible
Partition coefficient	Not determined for the complete mixture
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Low; batch dependent
Explosive properties	Not classified as explosive
Oxidising properties	Not classified as oxidising

Published geranium-oil specifications report refractive-index values around 1.461–1.475, while analytical data assessed by EFSA reported values around 1.464–1.469 for tested geranium rose-oil batches.

Batch-specific analytical values must take precedence.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No hazardous reaction is expected under normal handling and storage conditions.

Chemical Stability

Stable when stored in a tightly closed container under recommended conditions.

The product may oxidise when exposed to air, heat or light.

Possibility of Hazardous Reactions

Hazardous polymerisation is not expected.



The product may react with strong oxidising agents.

Conditions to Avoid

- Excessive heat
- Direct sunlight
- Prolonged exposure to air
- Flames and sparks
- Moisture contamination
- Storage in unsuitable containers

Incompatible Materials

- Strong oxidising agents
- Strong acids
- Strong alkalis
- Reactive halogen compounds

Hazardous Decomposition Products

Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, smoke and irritating organic vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

- Skin contact
- Eye contact
- Inhalation
- Accidental ingestion

Acute Toxicity

The complete essential oil is not classified as acutely toxic in this document based on available information.

Ingestion of concentrated essential oil may nevertheless cause harmful effects.

Skin Corrosion/Irritation

Causes skin irritation.



Prolonged or repeated exposure may result in redness, dryness, burning or inflammation.

Serious Eye Damage/Irritation

Causes serious eye damage.

Direct contact may cause severe pain, redness, tearing and possible corneal injury.

Respiratory Sensitisation

Not classified based on available information.

Skin Sensitisation

May cause an allergic skin reaction.

Potential naturally occurring sensitising constituents include:

- Citronellol
- Geraniol
- Linalool
- Limonene
- Citral
- Eugenol
- Nerol
- Geranyl formate
- Citronellyl formate

Oxidised essential oil may have increased sensitisation potential.

Germ-Cell Mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified for the complete essential oil based on available information.

Reproductive Toxicity

Not classified for the complete essential oil based on available information.

Specific Target-Organ Toxicity — Single Exposure



High vapour or aerosol concentrations may cause:

- Headache
- Dizziness
- Nausea
- Respiratory discomfort

Specific Target-Organ Toxicity — Repeated Exposure

Not classified based on available information.

Aspiration Hazard

The complete product is not classified as an aspiration hazard in this document.

Nevertheless, aspiration into the lungs following swallowing or vomiting may cause serious injury.

Do not induce vomiting unless directed by qualified medical personnel.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long-lasting effects.

Persistence and Degradability

Complete biodegradation data are not available for this Natural Complex Substance.

Many plant-derived constituents may be biodegradable, but concentrated release can still cause environmental damage.

Bioaccumulative Potential

Certain hydrophobic terpene constituents may have bioaccumulative potential.

Mobility in Soil

The product has low water solubility and may adsorb to soil and organic matter.

PBT and vPvB Assessment



A complete PBT or vPvB assessment is not available for the natural essential oil.

Endocrine-Disrupting Properties

No complete assessment is available for the mixture.

Other Adverse Effects

Avoid uncontrolled environmental release.

Do not discharge concentrated product into drains, waterways or soil.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of the product through an authorised chemical-waste contractor in accordance with applicable regulations.

- Do not discharge into drains, sewers or waterways.
- Do not dispose of with ordinary household waste.
- Avoid contamination of soil and groundwater.
- Dispose of contaminated absorbent as chemical waste.
- Empty containers may retain hazardous residue.
- Containers should be cleaned, recycled or disposed of through an authorised facility.
- Do not reuse containers for food, beverages or drinking water.

SECTION 14: TRANSPORT INFORMATION

Based on the conservative chronic aquatic classification, the product may be regulated for transport as an environmentally hazardous liquid.

Transport Information	Classification
UN Number	UN 3082
UN Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.
Technical Name	Geranium Essential Oil / Pelargonium Graveolens Oil
Transport Hazard Class	9
Packing Group	III
Environmental Hazard	Yes
Marine Pollutant	Yes, where applicable
ADR/RID	Class 9, UN 3082, Packing Group III
IMDG	Class 9, UN 3082, Packing Group III; Marine Pollutant



IATA/ICAO

Class 9, UN 3082, Packing Group III

Transport Qualification

The final transport classification must be verified using:

- Actual batch composition
- Flash-point result
- Aquatic-hazard calculation
- Package size
- Mode of transport
- Current carrier and jurisdictional requirements

Limited-quantity or small-package exemptions may apply.

SECTION 15: REGULATORY INFORMATION

This Safety Data Sheet has been structured with reference to:

- Regulation (EC) No. 1907/2006 — REACH
- Regulation (EC) No. 1272/2008 — CLP
- Globally Harmonized System of Classification and Labelling of Chemicals
- Regulation (EC) No. 1223/2009 on cosmetic products
- Applicable ADR, RID, IMDG and IATA transport requirements

The product contains naturally occurring fragrance allergens that may require declaration in finished cosmetic products when applicable concentration thresholds are exceeded.

The finished-product manufacturer is responsible for:

- Reviewing applicable IFRA Standards
- Calculating fragrance-allergen concentrations
- Completing the cosmetic safety assessment
- Determining the legally compliant ingredient list
- Confirming suitability for the intended application
- Ensuring compliance with applicable national and regional requirements

SECTION 16: OTHER INFORMATION

Full 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.

Document Information

Item	Details
Document Type	Material Safety Data Sheet / Safety Data Sheet
Product	Geranium Essential Oil (Egypt)
Botanical Source	<i>Pelargonium graveolens</i> L'Hér.
Country of Origin	Egypt
Issue Date	17 July 2026
Revision Number	01
Supersedes	New document
Intended Users	Professional, commercial and industrial users

DISCLAIMER

The information in this Safety Data Sheet is based on available technical documentation and current knowledge of steam-distilled *Pelargonium graveolens* essential oil.

Geranium Essential Oil is a Natural Complex Substance. Its composition, allergen content, physical properties and hazard classification may vary according to:

- Botanical cultivar
- Geographical origin
- Climate and soil conditions
- Harvest season
- Plant maturity
- Distillation conditions
- Storage conditions
- Production batch

Batch-specific analytical data, including GC–MS composition, flash point and the original manufacturer's hazard classification, must take precedence over representative information.

This document provides guidance for safe handling, storage, transport and use. It does not constitute a warranty of suitability for a particular application.

The user is responsible for determining suitability for the intended use and complying with all applicable legal and regulatory requirements.

This product is not intended for internal consumption and must be stored securely away from children.



Authorised by:
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