



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 Bourbon Organic Essential Oil
Alternative Names	Bourbon Geranium Oil, Rose Geranium Bourbon Oil, Organic Geranium Essential Oil
Botanical Name	<i>Pelargonium graveolens</i> L'Hér.
INCI Name	Pelargonium Graveolens Oil
CAS Number	8000-46-2
EC Number	290-140-0
FEMA Number	2508
Plant Part	Leaves and flowering aerial parts
Extraction Method	Steam distillation
Product Type	100% pure and natural essential oil
Organic Status	Produced from organically cultivated botanical material; certification must be confirmed by the applicable batch certificate
Country of Origin	Batch specific
Recommended Use	Professional perfumery, fragrance manufacture, cosmetics, soaps and personal-care formulations
Uses Advised Against	Internal consumption, direct undiluted application, uncontrolled household use and use by children

Commercial SDS documentation for Bourbon geranium oil commonly identifies the material as *Pelargonium graveolens* oil under CAS 90082-51-2 and 8000-46-2, with EC number 290-140-0.

SUPPLIER

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



SECTION 2: HAZARD IDENTIFICATION

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

Geranium Bourbon Organic Essential Oil is a Natural Complex Substance. Its precise classification may vary according to the actual batch composition.

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 oil SDS documents commonly classify the oil as a skin irritant and sensitiser, with serious eye-damage or eye-irritation hazards and chronic aquatic toxicity.

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 vapours, 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 local, national and international regulations.

Other Hazards

Oxidation caused by prolonged exposure to air, heat or light may increase the sensitising potential of naturally occurring terpene constituents.

The 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 / 7540-51-4	20–50%
Geraniol	106-24-1	10–25%
Linalool	78-70-6	5–20%
Isomenthone	491-07-6	4–12%
Citronellyl Formate	105-85-1	4–12%
Geranyl Formate	105-86-2	2–10%
Menthone	10458-14-7	1–6%



Nerol	106-25-2	1–5%
Geranyl Propionate	105-90-8	Trace–5%
Citronellyl Tiglate	24717-85-9	Trace–4%
Geranyl Acetate	105-87-3	Trace–3%
Limonene	138-86-3 / 5989-54-8	Trace–2%
Beta-Caryophyllene	87-44-5	Trace–2%
Alpha-Pinene	80-56-8	Trace–1%
Beta-Pinene	127-91-3	Trace–1%
Citral	5392-40-5	Trace
Eugenol	97-53-0	Trace

Citronellol, geraniol, linalool, isomenthone and citronellyl formate are commonly reported among the principal constituents of Bourbon geranium oil.

The composition of this natural essential oil varies according to cultivar, geographical origin, climate, harvest period, plant maturity, distillation conditions and storage.

SECTION 4: FIRST-AID MEASURES

Inhalation

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

Seek medical attention if coughing, dizziness, headache, 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 directed by qualified medical personnel.

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

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, redness or tearing
- Corneal injury following direct eye exposure
- Headache, dizziness or nausea following excessive vapour exposure
- Gastrointestinal discomfort if swallowed

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 this may spread the burning oil.

Specific Fire Hazards



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

Combustion or thermal decomposition may produce:

- Carbon monoxide
- Carbon dioxide
- Smoke
- Irritating organic fumes
- 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.
- Remove heat, sparks, flames and other ignition sources.

Environmental Precautions

Prevent entry into:

- Drains
- Sewers
- Surface water
- Groundwater
- Soil

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

Containment and Cleaning



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

- Sand
- Vermiculite
- Diatomaceous earth
- Commercial oil absorbent

Transfer the absorbed material to 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 protective equipment and Section 13 for disposal requirements.

SECTION 7: HANDLING AND STORAGE

Safe Handling

- Use only in a well-ventilated area.
- Avoid breathing concentrated vapours, mist or aerosol.
- Avoid direct contact with skin and eyes.
- Wear suitable protective 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 handling equipment.
- Prevent contamination with water or incompatible materials.
- Avoid uncontrolled release into the environment.
- Do not use internally.

Storage Conditions

Store:

- In the original, tightly closed container
- In a cool, dry and well-ventilated location
- 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 stated in the batch documentation.

Minimise 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 workplace limits for individual constituents should be observed where required.

Engineering Controls

Provide adequate general ventilation.

Use local exhaust ventilation where concentrated vapour, aerosol or mist 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 for bulk handling
Hand protection	Chemical-resistant nitrile gloves
Skin protection	Protective laboratory coat, apron or suitable work clothing
Respiratory protection	Normally unnecessary with adequate ventilation; use an approved organic-vapour respirator where ventilation is inadequate
Hygiene measures	Wash hands and exposed skin after handling and before eating, drinking or smoking

Replace contaminated gloves and protective 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, minty and herbaceous
Odour threshold	Not determined
Relative density at 20°C	Approximately 0.880–0.910
Refractive index at 20°C	Approximately 1.460–1.480
Optical rotation	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
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

Physical values vary between batches and geographical origins. The applicable batch Certificate of Analysis 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 air exposure
- 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
- Irritating organic fumes

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

- Skin contact
- Eye contact
- Inhalation
- Accidental ingestion

Acute Toxicity



The complete essential oil is not generally classified as acutely toxic based on currently available information.

Ingestion of concentrated oil may nevertheless cause adverse 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, tearing, redness and possible corneal injury.

Respiratory Sensitisation

Not classified based on available information.

Skin Sensitisation

May cause an allergic skin reaction.

Naturally occurring sensitising constituents may include:

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

Oxidised 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 irritation

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 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 the Natural Complex Substance.

Many naturally occurring constituents may be biodegradable, but concentrated release can still cause environmental harm.

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 local, regional and national 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 hazardous 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 applied 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

Special Provisions

Limited-quantity or small-package exemptions may apply depending on package size, mode of transport and jurisdiction.

The actual batch classification, package size and current carrier requirements must be reviewed before dispatch.

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.

Organic status does not alter the chemical hazard classification of the essential oil. Organic certification should be supported by a valid certificate covering the relevant producer, material and batch.

The finished-product manufacturer is responsible for:

- Reviewing the applicable IFRA Standards
- Calculating allergen concentrations
- Completing the cosmetic safety assessment
- Determining the legally compliant ingredient list
- Confirming suitability for the intended application
- Ensuring compliance with applicable market and transport 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 Bourbon Organic Essential Oil
Botanical Source	<i>Pelargonium graveolens</i> L'Hér.
Issue Date	17 July 2026
Revision Number	01
Supersedes	New document
Intended Users	Professional, commercial and industrial users

Organic Qualification

The description “Organic” must be supported by a valid organic certificate, transaction certificate or supplier declaration applicable to the specific batch.

This SDS does not independently certify the product as organic.

Disclaimer

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

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

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

Batch-specific analytical data, including GC–MS composition, flash point and supplier hazard classification, must take precedence over generic or representative information.



This document is provided as guidance for safe handling, storage, transportation and use. It does not constitute a warranty of product properties or 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 kept securely away from children.

Authorised by:

Fozia Khot

Director