



CERTIFICATE OF ANALYSIS

| | |
|-------------------------|------------------------------|
| PRODUCT | GERANIUM OIL EGYPTIAN |
| BATCH NO | 4755801 |
| BEST BEFORE END | APRIL 2022 |
| Appearance | Clear, bright, yellow liquid |
| Odour | Characteristic of geranium |
| Specific gravity @ 20°C | 0.895 |
| Refractive Index @ 20°C | 1.468 |
| Optical rotation | -11° |
| Solubility | Soluble in 70% alcohol |
| Acid value | 3.6 |



ALLERGENS LIST

PRODUCT: Geranium Egypt

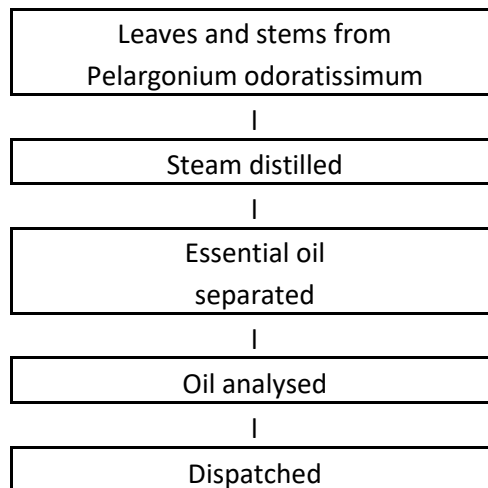
| Product | CAS number | | % max |
|--|------------|---------------------|------------|
| Amyl cinnamic alcohol | 101-85-9 | Not found in nature | - |
| Amyl cinnamic aldehyde | 122-40-7 | Not found in nature | - |
| Anisyl alcohol | 105-13-5 | | - |
| Benzyl alcohol | 100-51-6 | | - |
| Benzyl benzoate | 120-51-4 | | - |
| Benzyl cinnamate | 103-41-3 | | - |
| Benzyl salicylate | 118-58-1 | | - |
| Cinnamic alcohol | 104-54-1 | | - |
| Cinnamic aldehyde | 104-55-2 | | - |
| Citral | 5392-40-5 | | 1.5 |
| Citronellol | 106-22-9 | | 36 |
| Coumarin | 91-64-5 | | - |
| Eugenol | 97-53-0 | | - |
| Farnesol | 4602-84-0 | | - |
| Geraniol | 106-24-1 | | 18 |
| Hexyl cinnamic aldehyde | 101-86-0 | Not found in nature | - |
| Hydroxycitronellal | 107-75-5 | Not found in nature | - |
| Hydroxymethylpentylcyclohexenecarboxaldehyde | 31906-4-4 | Not found in nature | - |
| Isoeugenol | 97-54-1 | | - |
| 2-(4-tert-butylbenzyl)propionaldehyde | 80-54-6 | | - |
| Limonene | 5989-27-5 | | 1 |
| Linalol | 78-70-6 | | 8.5 |
| Methylheptine carbonate | 111-12-6 | Not found in nature | - |
| Methyl ionone | 127-51-5 | Not found in nature | - |
| Oakmoss extract | 9028-68-55 | | - |
| Treemoss extract | 84696-53-7 | | - |

- not detected



Process flow Chart

Geranium Oil Egyptian





CERTIFICATE OF GMO STATUS

For the purpose of this statement 'genetically modified organism (GMO)' is defined in Directive 2001/18/EC as an organism in the which genetic material has been altered in a way that does not occur naturally by mating and/or natural recombination.

This is to certify that to the best of our knowledge and belief the oil of Geranium Egyptian that this company supplies is not produced by gene modification or derived from genetically modified organisms or from the use of genetically modified organisms.

Neither MADAR Corporation Ltd., nor our suppliers can guarantee against or be held responsible for potential cross-pollination between crops, or any other unforeseen contamination risks.



IFRA STANDARDS CONFORMITY CERTIFICATE

Fragrance compound

Product: Geranium Oil Egyptian

We certify that the above substance is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA), 48th Amendment to the IFRA Code of Practice (published June, 2015), It does not appear in the IFRA list of standards and so no information is available on its use in the IFRA Classes:

| <i>IFRA class(es) [see respective IFRA guidance for details]</i> | Level of use (%)* |
|--|--------------------------|
| | |

*Actual use level or maximum use level

The IFRA Standards are based on safety assessments by the Panel of Experts of the RESEARCH INSTITUTE FOR FRAGRANCE MATERIALS (RIFM).

Recommendation: Information about presence and concentration of IFRA restricted/prohibited materials in the Geranium Oil Chinese is as follows:

IFRA Restricted materials:

| Ingredient name | CAS | Concentration % |
|------------------------|------------|------------------------|
| Citral | 5392-40-5 | 0.5 |
| l-citronellol | 7540-51-4 | 33 |
| Geraniol | 106-24-1 | 17 |

IFRA prohibited materials: None

| Ingredient name | CAS | Details |
|------------------------|------------|----------------|
| | | |

Signature (If generated electronically, no signature)

Date 3 December 2017

Disclaimer: This Certificate provides restrictions for use of the specified product based only on those materials restricted by IFRA Standards for the toxicity endpoint(s) described in each Standard. This Certificate does not provide certification of a comprehensive safety assessment of all product constituents.

SAFETY DATA SHEET

Geranium oil Egyptian

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Geranium oil Egyptian

| | |
|----------------------------|--------------------------------|
| EC number: | 290-141-6 |
| EC name: | Pelargonium odoratissimum, ext |
| CAS number (EC inventory): | 90082-52-3 |
| Registration number | |

1.2 Relevant identified uses of the substance or mixture and uses advised against

Multiple uses in the Flavour and Fragrance industries

1.3 Details of the supplier of the safety data sheet

MADAR Corporation Limited
 19-20 Sandleheath Industrial Estate
 Fordingbridge
 SP6 1PA
 Tel: 01425 655555
 E mail: sales@madarcorporation.co.uk

Approved sellers
 Cosmetic Butters, Mystic Moments, New Directions, World of Moulds

1.4 Emergency telephone number

In case of emergen Tel. 01425 655555 during office hours

SECTION 2: Hazards Identification

2.1 Classification of the substance

Classification in accordance with the Dangerous Substances Directive 67/548/EEC

Hazard Symbol

Xn+N

Risk Phrases

R38 – Irritating to skin

R41 – Risk of serious damage to eyes

R43 - May cause sensitisation by skin contact

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

Safety Phrases

S24 - Avoid contact with skin

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37 - Wear suitable protective clothing and gloves

S39 – Wear eye/face protection

S61 - Avoid release to the environment. Refer to special instructions/safety data sheet

Classification in accordance with GHS Hazard codes

H227 - Combustible liquid

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H401 - Toxic to aquatic life

H412 - Harmful to aquatic life with long lasting effects

Classification in accordance with the Classification Labelling and Packaging Regulation EC (no) 1272/2008

Hazard Statements

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

Precautionary Statements

P262 - Do not get in eyes, on skin, or on clothing

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

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

2.2 Label elements

Signal Word DANGER

Pictograms



GHS05



GHS07

2.3 Other hazards

SECTION 3: Composition

3.1 Substances

Geranium oil Egyptian 100 %

SECTION 4: First Aid Measures

4.1 Description of first aid measures

EYE CONTACT: Irrigate the eyes with copious volumes of water for at least 15 minutes with the eye lids held open. Seek medical advice if inflammation persists

INHALATION: Remove person to fresh air, remove any contaminated clothing, in case of breathing difficulty seek medical advice.

SKIN CONTACT: Wash affected area with soap and running water, if irritation persists seek medical advice.

INGESTION: Dilute internally with water, do not induce vomiting. Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatments needed

Symptomatic treatment as required

SECTION 5: Firefighting Measures

5.1 Extinguishing media Foam, CO₂, Dry Powder

5.2 Special hazards arising from the substance or mixture Combustion products: Carbon monoxide, Carbon dioxide, Smoke

5.3 Advice for fire fighters Do Not Use Water as extinguishing media. No special fire fighting equipment required.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear clothing suitable for an emergency

6.2 Environmental precautions

Contain the leak with earth or sand. Prevent from entering drains, sewers and water courses. If this cannot be done, advise the local authority.

6.3 Methods and materials for containment and clearing up

Absorb spillage onto sand or earth. Transfer to a suitable container for disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Handle in a well ventilated area, away from sources of ignition, **DO NOT SMOKE.**

7.2 Conditions for safe storage, including any incompatibilities

Store in well-filled, tightly closed containers away from heat, light and sources of ignition.

7.3 Specific end uses

Used in Flavours and Fragrances.

SECTION 8. Exposure Controls/Personal Protection**8.1 Control parameters No data available**

| Substance | 8 hour exposure limit | 15 minute exposure limit | Source, Type |
|-----------|-----------------------|--------------------------|--------------|
| | | | |

DNELs for workers No data available

| Exposure pattern | Route | DNEL | Dose descriptor |
|------------------------------|------------|------|-----------------|
| Acute - systemic effects | Dermal | | |
| Acute - systemic effects | Inhalation | | |
| Acute - local effects | Dermal | | |
| Acute - local effects | Inhalation | | |
| Long-term - systemic effects | Dermal | | |
| Long-term - systemic effects | Inhalation | | |
| Long-term - local effects | Dermal | | |
| Long-term - local effects | Inhalation | | |

PNECs No data available

| Compartment | PNEC | Dose descriptor |
|------------------|------|-----------------|
| Fresh water | | |
| Sewage treatment | | |

8.2 Exposure controls

Engineering controls – Use suitable handling equipment

Respiratory protection – Use only in well ventilated areas. Use protection in poor ventilation.

Hand Protection – Wear gloves

Eye protection – Wear goggles

Skin protection – Wear suitable protective clothing

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Clear, mobile liquid

Odour: Characteristic of geranium

Odour threshold: No data available

pH: Not applicable

Melting point: Not applicable

Boiling point: Not applicable

Flashpoint: 91°C

Evaporation rate: No data available

Flammability: Combustible

Upper/lower flammability limits: No data available

Vapour pressure: No data available

Vapour density: No data available

Relative density: 0.885 – 0.905

Solubility in water: Insoluble

Solubility in other solvents: Soluble

Partition coefficient (log Kow): No data available

Autoignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidising properties: None

9.2 Other information

Particle size: Not applicable

SECTION 10: Stability and Reactivity

10.1 Reactivity: Will react with oxidising agents

10.2 Chemical stability: Stable under proper storage conditions.

10.3 Possibility of hazardous reactions: Not if stored correctly

10.4 Conditions to avoid: Do not leave containers open to the air. Avoid storage at elevated temperatures and sources of ignition.

10.5 Incompatible materials: Oxidising agents

10.5 Hazardous decomposition products: On combustion may produce smoke, carbon monoxide and carbon dioxide.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

Toxicokinetics

- (a) acute toxicity: LD₅₀ 5000 mg/kg (Rat). Dermal 5000mg/kg (Rabbit)
- (b) skin corrosion/irritation: Causes skin irritation
- (c) serious eye damage/irritation: May cause eye irritation
- (d) respiratory/skin sensitisation: May cause an allergic skin reaction
- (e) germ cell mutagenicity: No data available
- (f) carcinogenicity: No data available
- (g) reproductive toxicity: No data available
- (h) STOT-single exposure: No data available
- (i) STOT-repeated exposure: No data available
- (j) aspiration hazard: No data available

SECTION 12: Ecological Information

- 12.1 Toxicity: No data available
- 12.2 Persistence and degradability: No data available
- 12.3 Bioaccumulative potential: No data available
- 12.4 Mobility in soil: No data available
- 12.5 Results of PBT and vPvB assessment: No data available
- 12.6 Other adverse effects

SECTION 13: Disposal Considerations

13.1 Waste treatment methods – Do not dispose into drainage systems. Ensure disposal is within local and national guidelines. Consult a specialist waste disposal company for correct disposal procedure and/or seek other expert advice.

SECTION 14: Transport Information

| | ADR | IMDG | ICAO |
|---|-----------------------|----------|----------|
| 14.1 UN Number | No class | | |
| 14.2 UN Proper shipping name | Geranium oil Egyptian | | |
| 14.3 Transport hazard class(es) | No class | No class | No class |
| 14.4 Packing group | No class | | |
| 14.5 Environmental hazards | | | |
| 14.6 Special precautions for user | | | |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | | | |

SECTION 15: Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This substance is listed as existing in Europe

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other Information

Revision information:

List of Abbreviations used in this SDS:

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging Regulation (EC) no 1272/2008

DSD Dangerous Substances Directive 67/548/EEC

DPD Dangerous Preparations Directive 1999/45/EC

EC European Community/Commission

PBT Persistent, Bioaccumulative and Toxic

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006

vPvB very Persistent, very Bioaccumulative

References: Food Cosmetics Toxicology 14 781-2 (1976)

The information in this safety data sheet is based on the properties of the material known to John Kellys (London) Ltd at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances under which it is packaged, stored or applied in the workplace. This document is not intended for quality assurance purposes.



SPECIFICATION

GERANIUM EGYPTIAN

| | |
|-------------------------|--------------------------|
| Appearance | : A yellow mobile liquid |
| Odour | : Floral, rose like |
| Density @ 20°C | : 0.885 – 0.905 g/ml |
| Optical Rotation @ 20°C | : -15 to - 5 |
| Refractive Index @ 20°C | : 1.460 – 1.475 |