

Geranium Egyptian

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MATERIAL SAFETY DATA SHEET

ACCORDING TO EC LEGISLATION 91/155/E EC

Date created: May 2004

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1. Identification:

Commercial name: Geranium Egyptian essential oil.
Botanical Nomenclature: Pelargonium graveolens.
INCI name: Pelargonium graveolens
CAS number: 8000-46-2
EINECS/ELINCS number: 90082-51-2
EEC Number: 290-140-0

2. Composition:

Main components: Citronellol, Geraniol, Citronellyl formate, Linalool, iso-menthone, Geranyl formate, D-guaiene, Geranial, Geranyl tiglate, D-pinene, Geranyl propionate, β -caryophyllens, D-terpineol, Cis-rose oxide.
Additives (e.g. carriers, preservatives, antioxidants): Nil.

3. Potential Health Hazards:

Inhalation: None identified.
Skin: Concentrated liquid and vapours irritating to skin by prolonged exposure.
Eyes: Irritating to eyes with possible damage.
Ingestion: Harmful if swallowed.

4. First aid:

Inhalation: If discomfort is felt, remove person to a well ventilated area with plenty of fresh air.
Skin: Remove contaminated clothing. Wash affected area with plenty of soap and water.
Eyes: Flush immediately with plenty of cool water for 10 to 20 minutes. Seek medical advice from a Medical Doctor.
Ingestion: Seek immediate medical care.

5. In case of fire:

Extinguishing Media: Foam, Carbon dioxide.
Do not use: Water.
Special precautions: wear breathing apparatus as toxic vapours may be released during fire.

6. Spill and Leak Procedure:

Individual precautions: Eliminate sources of ignition. Keep area well ventilated and isolate the spill.
Environmental protection: Prevent the liquid from entering the drains and sewers.
Cleaning methods: Soak up the spill using inert absorbents. For large spills use pumps.

7. Handling and storage:

Store in a cool, dry and dark place in suitable containers (aluminium cans or lacquer lined steel drums).
Handle in a well ventilated area.
Keep away from sources of heat and ignition.

8. Personal Protection / Exposure control:

Respiratory protection: wear breathing apparatus when working in an area of high vapour concentration.
Skin protection: Use protective gloves. Wear protective clothing when possibility exists of contact.
Eye protection: Goggles should be worn.
General precautions: Use good industrial hygiene practise.

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Dark green liquid

9. Physiochemical properties:

Appearance:

sweet, rose-like with minty undertones

Odour:

pH:

Neutral

Not available

Boiling point:

75°C

Flash point:

Autoignition Temperature:

Not available

Not available

Explosion Limits:

Vapour pressure (25°C):

Not available

>1 (air=1)

Vapour Density:

Specific Gravity (20°C):

0.883 ? 0.900

Optical Rotation (20°C):

-70° to ?14°

Refractive Index (20°C):

1.462 ? 1.473

Solubility in water (20°):

Negligible

Partition Coefficient log P o/w:

Not available

Evaporation rate:

<1 (Butyl Acetate=1)

10. Stability and Reactivity:

Chemical Stability: Stable.

Conditions to avoid: Normally stable. Not reactive with water.

Hazardous Decomposition Products: Not available.

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11. Sensitisers:

Citral 1.5%, Geraniol 18%, Citronellol 36%, Limonene 1%, Linalool 8.5%, total 65%

12. Toxicological Information:

According to RIFM- Monograph:

Acute Toxicity: Oral LD50: 5 g/kg in rats.

Dermal LD50: 2.5 g/kg in rabbits.

Irritation: Tested without irritation at 10%.

Sensitisation: Tested without sensitisation at 10%.

Phototoxicity: No phototoxic reactions observed.

Sensitising component detected in the Essential Oil: Citronellol: 40%: Geraniol

18%: Linalool: 10%:

Citral 1.5%

13. Ecotoxicological information:

Fish Toxicity: LCO/EC50: Not available.

Bacteriotocity: ECO/EC50: Not available.

14. Disposal Method:

Check Federal, State and Local Regulations.

15. Transport Information:

Non-hazardous material transport in suitable containers.

16. Regulatory Information

The British Essential Oil Association Chip Regulations - 2002

Hazard Symbols:

Xn

R65

Risk Phrases:

H/C%:

15

S62

Safety Phrase:

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FOR AND ON BEHALF OF SHIRLEY PRICE AROMATHERAPY LTD:
P.I Brealey..... (MANAGING DIRECTOR)
DATE: