



MATERIAL SAFETY DATA SHEET

1. Product Identification:

Product Name:	Peppermint Geranium Oil
Botanical Name:	<i>Pelargonium tomentosum</i>
Synonyms:	n/a
INCI Name:	Pelargonium tomentosum oil
CAS #:	n/a
Country of Origin:	South Africa

2. Classification:

Chemical Identification: Oils, geranium
UN No. 1169: Liquid aromatic extract
CAS# 89-80-5 (menthone) & 491-076 (iso-menthone)
EINECS# 201-941-1 (menthone) & 207-727-4 (iso-menthone)
24 HOUR EMERGENCY TELEPHONE NUMBER: (613)-996-6666 CANUTEC

3. Hazardous Ingredients Information:

N/A

4. Physical & Chemical Properties:

Appearance:	Pale yellow to greenish straw - like liquid.
Odor:	Characteristic minty, rosy-like odor.
Solubility:	Soluble in alcohol and oils. Insoluble in water.
Specific Gravity:	0.880 – 0.899 @ 20°C
Optical Rotation:	n/a
Refractive Index:	n/a
Alpha-phillandrene:	0 – 10 %
Limonene:	0 – 10 %
Beta-phillandrene	0 – 10 %
Isomenthone:	40 – 60 %
Menthone:	25 – 48 %
Extraction Method:	Steam distillation of the leaves and flowers.
Contents:	a-phillandrene, limonene, b-phillandrene, menthone and isomenthone
Flash Point:	68 °C (open cup)

5. Fire/Explosion Hazard:

Flash Point: 68 °C (open cup) Combustible liquid. Will ignite if overheated.

6. Reactivity/Stability Data:

Reactivity: Stable.

Decomposition: Essential oils are naturally high in volatile organic compounds (VOCs). When heated to decomposition, the smoke from burning essential oils may contain potential carcinogens, such as polycyclic aromatic hydrocarbons (PAHs).

7. Toxicological Properties/Information:

It may cause sensitivity on some individuals. Because it is reputed to balance the hormonal system, it is advised that geranium be avoided during pregnancy.

8. Preventive Data:

Spillage: Absorb spills, cover with an inert, non-combustible, inorganic absorbent material, and remove to an approved disposal container.

Fire: Recommended extinguishing media – CO₂, foam and dry chemicals. DO NOT use direct water jet on burning material.

Environment: Keep away from drains, surface and ground water.

Storage: Store in cool, dry and well ventilated area protected in tightly closed container away from sources of ignition, heat and sunlight. Keep air contact to minimum.

9. First Aid Measures:

Eye contact: Flush with water for at least 15 minutes. Call physician if irritation persists.

Inhalation: Remove to fresh air. Avoid casual breathing.

Ingestion: Rinse mouth and consult a physician immediately. Never-give anything by mouth if victim is unconscious, is rapidly-losing consciousness, or is convulsing.

Skin contact: Remove contaminated clothing. Wash with soap and plenty of water.

11. Individual Protection (For Industrial and Bulk Container Use):

Use safety glasses.

Avoid breathing in product by ensuring good ventilation when handling.

Avoid skin contact by using chemical resistant gloves.

12. Preparation Information:

Quality Assurance

New Directions Aromatics Inc.

Brampton ON L7A 1C5

Revision Date: September 30, 2009.

Disclaimer

The information contained in this Certificate of Analysis and Material Safety Data Sheet are obtained from current and reliable sources. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc., no representation or warranty, expressed or implied is made as to the effect(s) of such use(s) (including damage or injury), or the results obtained.

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CERTIFICATE OF ANALYSIS

PRODUCT: PEPPERMINT GERANIUM ESSENTIAL OIL

PRODUCT NO: 11256

LOT NO: 11256-A02

	Specifications:	Results:
Appearance:	Pale yellow to greenish liquid.	Complies
Odor:	Characteristic minty, rosy-like odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.880 – 0.899 @ 20°C	Complies

Menthone:	25 – 48 %	Complies
Isomenthone:	40 – 60 %	Complies