



MATERIAL SAFETY DATA SHEET

1. Identification of Substance/Preparation & Company

PRODUCT NAME: Rhododendron
PRODUCT CODE: RHODO
SUPPLIER: Green Valley Aromatherapy Ltd.,
505 Duncan Ave, Courtenay, BC CANADA V9N 2M6
Emergency Tel No: (250) 334-4836. Contact Person: Kelly Lees

2. Composition / Information on Ingredients

DEFINITION/BOTANICAL ORIGIN: Obtained from the steam distillation of the aerial portions of *Rhododendron anthopogon D. Don.*

H-No:	CAS No:	Status:
CoE No:	FEMA:	Additives:
FDA:	IFRA:	Application: Aromatherapy, skin care etc.
RIFM:	EINECS:	
INCI name: <i>Rhododendron anthopogon</i>		FCCIV:
		Country of Origin: Nepal

3. Hazards Identification

Concentrated product. Do not ingest, use good housekeeping procedures when handling.

4. First-Aid Measures

INHALATION:	Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.
EYE CONTACT:	Rinse immediately with plenty of water for at least 15 minutes. Contact a doctor if symptoms persist.
SKIN CONTACT:	Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.
INGESTION:	Rinse out mouth with water. Seek medical advice immediately .
OTHER:	When assessing action take Risk & Safety Phrases into account (Section 15).

5. Fire Fighting Measures

EXTINGUISHING MEDIA:	Use CO ₂ , Dry Powder or Foam type Extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.
SPECIAL MEASURES:	Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.
EXTINGUISHING PROCEDURES:	Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:	Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.
ENVIRONMENT PRECAUTIONS:	Keep away from drains, soils, surface & ground waters.
CLEAN UP METHODS FOR SPILLAGES:	Remove all potential ignition sources. Contain spilled material. Cover with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe municipal, federal and local disposal regulations.

7. Handling & Storage

PRECAUTIONS IN HANDLING:	Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene. Do not eat, drink or smoke whilst handling.
STORAGE CONDITIONS:	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.
FIRE PROTECTION:	Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

8. Exposure Controls/Personal Protection

RESPIRATORY PROTECTION:	Avoid breathing product vapour. Apply local ventilation where possible.
VENTILATION:	Ensure good ventilation of working area.
HAND PROTECTION:	Avoid all skin contact. Use chemically resistant gloves if required.
EYE PROTECTION:	Use safety glasses.
WORK / HYGIENE PRACTICES:	Wash hands with soap & water after handling.

9. Physical & Chemical Properties

COLOUR:	Pale yellow
APPEARANCE:	Mobile liquid
ODOUR:	Sweet herbal, faintly balsamic
FLASH POINT °C:	66
SPECIFIC GRAVITY @ 15°C:	0.8630 – 0.9219
OPTICAL ROTATION @ 15°C:	-10.05° to -32.9°
REFRACTIVE INDEX @ 15°C:	1.4785 – 1.4881
SOLUBILITY IN 95% ETHANOL @ 20°C:	Due to altitudinal and regional variation some oils are soluble and some are not.
SOLUBILITY IN VEGETABLE OILS:	Soluble
SOLUBILITY IN WATER:	Insoluble

Typical Analysis by GLC/GCMS:

CONSTITUENT	PERCENTAGE
Alpha-thujene	0.15
Alpha-pinene	23.94
Camphene	0.27
Sabinene	0.08
Beta-pinene	10.30
Myrcene	1.77
Alpha-terpinene	0.18
Para-cymene	0.20
Limonene	9.28
Z-Beta-ocimene	7.04
E-Beta-ocimene	1.26
Gamma-terpinene	1.75
Terpinolene	0.38
Linalol	0.17
Borneol	0.04
Terpinene-4-ol	0.21
Alpha-terpineol	0.40
Acetate de bornyle	0.16
Alpha-cubebene	0.47
Alpha-copaene	0.75
Beta-bourbonene	0.28
Sesquithujene	0.16
Alpha-gurjunene	0.22
Beta-caryophyllene	2.32
Beta-copaene	0.28
Aromadendrene	0.57
(E)-beta-farnesene	1.71
Alpha-humulene	0.58
Allo-aromadendrene	0.92
Gamma-murolene	2.44
Ar-curcumene	0.21
Beta-selinene	1.96
Alpha-murolene	4.74
Gamma-cadinene	3.21
Delta-cadinene	9.04
Calamenene Cis	0.99
Cadina-1,4-diene	0.42
Alpha-cadinene	0.69
Alpha-calacorene	0.15
Spathulenol	0.07
Eudesmol-10-epi-gamma	0.35
Muurolol-epi-alpha	1.24
Alpha-muurolol	0.49
Alpha cadinol	2.10
Alpha-bisabolol	0.31

10. Stability & Reactivity

REACTIVITY: It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.

DECOMPOSITION: Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide and other non-identified organic compounds may be formed.

11. Toxicological Information

No data available.

12. Ecological Information

BIODEGRADABILITY: Data not available

PRECAUTIONS: Prevent surface contamination of soil, ground & surface water.

13. Disposal Considerations

Avoid disposing to drainage systems and into the environment. Seek expert advice.

14. Transport Regulations

ROAD (ADR/RID): n/a
AIR (IATA/ICAO): n/a
SEA (IMDG): n/a
CHIP: See section 15

15. Regulatory Information According to Directive 88/379/EEC

HAZARDS: n/a
SYMBOLS: n/a
RISK PHRASES: n/a
SAFETY PHRASES: n/a

16. Other Information

PACKAGING:	TYPE	SUITABILITY
	Glass	Yes
	Lacquer lined steel/tin	Yes
	Aluminums	Yes
	HPPE	No
	F/HDPE	Yes
	Other Plastic	No

SHELF LIFE

Minimum 12 months when stored within advised conditions. Re-test after 12 months then every 3 months, up to a maximum of 36 months.

Q.C REQUIREMENTS

In-line with general product specification. Always satisfy suitability for specific application.

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