



MATERIAL SAFETY DATA SHEET

1. Identification of Substance/Preparation & Company

PRODUCT NAME: Basil
PRODUCT CODE: BASIL
SUPPLIER: Green Valley Aromatherapy Ltd.,
4988 North Island Hwy, Courtenay, BC CANADA V9N 9H9
Emergency Tel No: (250) 334-4836. Contact Person: Kelly Lees

2. Composition / Information on Ingredients

DEFINITION/BOTANICAL ORIGIN: Definition: Volatile oil obtained by steam distillation of the flowering tops & leaves of *Ocimum basilicum* Linne (Fam. *Labiatae*).

H-No: 3301.29.5050	CAS No: 8015-73-4	Status: natural
CoE No: 308	FEMA: 2119 (Sweet Basil oil only)	Additives: none
FDA: § 182.20	IFRA: not restricted	Application: aromatherapy, skin care, etc
RIFM: monograph	EINECS: 283-900-8	RTECS:
INCI name: <i>Ocimum basilicum</i>		FCCIV:

3. Hazards Identification

Xn Harmful. 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 CO₂, 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.

Last updated February 17, 2011

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:	Almost colourless to pale yellow.
APPEARANCE:	Pale yellow to yellow or greenish yellow liquid
ODOUR:	Typical basil, reminiscent of aniseed
FLASH POINT °C:	75
SPECIFIC GRAVITY @ 20°C:	0.9250 – 0.9550
OPTICAL ROTATION @ 20°C:	-8° to +2°
REFRACTIVE INDEX @ 20°C:	1.4950 – 1.5150
SOLUBILITY IN 75% ETHANOL @ 20°C:	1 + 2
SOLUBILITY IN VEGETABLE OILS:	Soluble
SOLUBILITY IN WATER:	Insoluble

Typical Analysis by GLC/GCMS:

CONSTITUENT	PERCENTAGE
1,8-Ceneole	2.9
Trans Ocimene	1.0
Camphor	0.4
Linalool	1.5
Methyl chavicol	85.0
Methyl Eugenol	2.1
May also contain: Myrcene, p-Cymene, Ocimenes, 3-Octanone, β-Caryophyllene, Safrole, Sesquithujene, 10-cadinols, α-Terpineol, Methyl Cinnamate, amongst others.	

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

High estragole (>10%) containing Basil oil: acute oral LD50: 1.4g/Kg FCT (1973) 11, 867: D.L.J. Opdyke found basil oil to be non-toxic, but Methyl chavicol is a known heptacarcinogen: see E.c. Miller et al. Cancer Res. 43, 1124 (1983). For genotoxicity of Basil & Tarragon oils see F. Tateo et al: J. Essen Oil Record 1, 11118 (May-June 1989). (N.B. Basil oils containing high linalol and low estragole contents are the preferred choice of many aromatherapists on reduced toxicity grounds).

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: Harmful
SYMBOLS: Xn
RISK PHRASES: R22: Harmful if swallowed
SAFETY PHRASES: S46 If swallowed seek medical advice immediately and show the container / label

16. Other Information

Cosmetics Directive 7th Amendment: Restrictions may apply. A source of Eugenol, Limonene and Linalool, listed as sensitizers. Check maximum usage levels for skin care products.

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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