



MATERIAL SAFETY DATA SHEET

1. Identification of Substance/Preparation & Company

PRODUCT NAME: Basil
PRODUCT CODE: BASIL
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: 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.

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 Methylyl chavicol is a known heptacarcinopgen: 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.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.