

MATERIAL SAFETY DATA SHEET.

1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

Product name: **Basil Oil**

SUPPLIER: Norfolk trading 1 Rigby's Crt Norwich NR2 1NT

Telephone +44 (0)1603 610883

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

CAS No: 84775-71-3

Status: natural

CoE No: 308

FEMA: 2119 (Sweet Basil oil only)

Additives: none

FCCIV:

Application:

FDA: § 182.20

IFRA: not restricted

RTECS:

RIFM: monograph

EINECS: 283-900-8

INCI name: OCIMUM BASILICUM

3. HAZARDS IDENTIFICATION:

Xn. Harmful.

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 mins. 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 mouth out 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 & groundwaters.

CLEANING UP METHODS

Remove all potential ignition sources. Contain spilled material. Cover

FOR SPILLAGES: with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe state, federal & local disposal regulations.

7. HANDLING & STORAGE.

PRECAUTIONS IN HANDLING: Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and 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: Light yellow.

APPEARANCE: Mobile liquid

ODOUR: Herbal odour with petitgrain like and minty aspects.

FLASH-POINT °C: 75

SPECIFIC GRAVITY AT 20°C: 0.9050 to 0.9550

REFRACTIVE INDEX @ 20°C: 1.4870 to 1.5150

SOLUBILITY IN VEGETABLE OILS: Soluble

SOLUBILITY IN WATER: Insoluble

ADDITIONAL DATA:

TYPICAL GC/MS ANALYSIS: CONTAINS MYRCENE, 1,8-CINEOL, P-CYMENE, OCIMENES, 3-OCTANONE, CAMPHOR, β -CARYOPHYLLENE, LINALOL, METHYL CHAVICOL, SAFROLE, SESQUITHUJENE, 10-CADINOLS, EUGENOL, GERANIOL, α -TERPINEOL, METHYL CINNAMATE, METHYL EUGENOL, 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 oxidising agents.

DECOMPOSITION: Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & 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 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) : n/a
SEA (IMDG): n/a

15. REGULATORY INFORMATION. According to Directive 88/379/EEC

HAZARDS: Harmful
SYMBOLS: Xn
RISK PHRASES: R22: Harmful if swallowed
SAFETY PHRASES:

16. OTHER INFORMATION.

PACKAGING:

Type	Suitability
Glass	Yes
Lacquer lined steel/tin	Yes
Aluminium	Yes
HPPE	No
F/HDPE	Yes
Other plastic	No

SHELF-LIFE

Min 12 months when stored within advised conditions.

Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.
Retest after 6 months.

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