

MATERIAL SAFETY DATA SHEET.

1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

PRODUCT NAME: **LAVENDER OIL**

SUPPLIER The Soap Kitchen, 11a South Street, Torrington, Devon, EX38 8AA.

Emergency Tel No: 01805 622944 Emergency Contact: Mr. Richard Phillips.

2. COMPOSITION / INFORMATION ON INGREDIENTS.

DEFINITION/BOTANICAL ORIGIN: Definition: The volatile oil obtained by steam distillation of the freshly cut flowering tops of the herb *Lavandula angustifolia* P. Miller (Fam. *Labitae*), blended/adjusted to defined composition (esters as linalyl acetate 40-42%)

H-No: 3301.23

CAS No: 8000-28-0

Status: natural

CoE No: 257

FEMA: 2622

Additives: none

FDA: 182.20

IFRA: not restricted

Application: Aromatherapy, cosmetics,

pharmaceuticals, perfumery, candles, soaps, food products.

RIFM: monograph

EINECS: 289-995-2

FCCIV: official

INCI name: LAVANDULA ANGUSTIFOLIA

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 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 RECOMMENDED: Use CO₂, Dry Powder or Foam type of 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 FOR SPILLAGES: Remove all potential ignition sources. Contain spilled material.

Cover with an inert or non-combustible inorganic absorbent material, or 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: Pale yellow to yellow

APPEARANCE: Clear mobile liquid

ODOUR: Fresh sweet floral-herbaceous, slightly woody

FLAVOUR:

FLASH-POINT°C: 71°C

RELATIVE DENSITY: d_{20}^{20} : 0.8700 to 0.8980

OPTICAL ROTATION @ 20°C: -8° to +2°

REFRACTIVE INDEX @ 20°C: 1.4550 to 1.4720

SOLUBILITY IN 75% ETHANOL @ 20°C: 1+ 2

ESTER CONTENT (AS LINALYL ACETATE): 40-42%

SOLUBILITY IN VEGETABLE OILS: Soluble

SOLUBILITY IN WATER: Insoluble

ADDITIONAL DATA:

TYPICAL ANALYSIS BY GC/MS: CONTAINS α -PINENE, CAMPHENE, β -PINENE, MYRCENE, δ -3-CARENE, LIMONENE, CIS-OCIMENE, 3-OCTANONE, TRANS-OCIMENE, 1-OCTEN-3-OL, 3-OCTANOL, TERPINOLENE, LINALOL OXIDES, 1-OCTEN-3-YL ACETATE, LINALOL, HEXYL ISOBUTYRATE, GALBANOLENE, CAMPHOR, TERPINEN-4-OL, LAVANDULOL, BORNEOL, α -TERPINEOL, LINALYL ACETATE, NEROL, BORNYL ACETATE, LAVANDULYL ACETATE, GERANIOL, α -SANTOLENE, NERYL ACETATE, β -CARYOPHYLLENE, GERANYL ACETATE, TRANS- β FARNESCENE, GERMACRENE D, β -BISABOLENE, γ -CADINENE, CARYOPHYLLENE OXIDE, CADINENE 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.

Acute oral LD₅₀: >5g/Kg

Dermal LD₅₀: > 5g/Kg

Opdyke D.L.J. (1976) *Food Cosmetics & Toxicology* **14**, 453, *ibid FCT* **14**,447 and *FCT* **14**,449 found lavender oil non-sensitising and non-irritating to skin with no potential human phototoxic effects. More recent work indicates that lavender oil may have some CNS depressant activity (see S. Atanasova-Shopova et al. (1974) through *Chem Abstr.*, **81**,58356j.)

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):

Air (IATA) :

SEA (IMDG):

UN 1993 :

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

HAZARDS:

SYMBOLS:

RISK PHRASES:

SAFETY PHRASES:

16. OTHER INFORMATION.

Conc. % Limits:

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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