

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE/PREPARATION

Product name: **Lavender Oil**

Product code: **MISC044**

2. COMPOSITION / INFORMATION ON INGREDIENTS.

Definition/Botanical Origin: 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 Country of origin: South Africa

CoE No: 257 FEMA: 2622 Additives: none

FDA: 182.20 IFRA: not restricted Application: Aromatherapy, skin care, pharmaceuticals

RIFM: monograph EINECS: 289-995-2 FCCIV: official

EINECS-CAS No: 90063-37-9

INCI name: *Lavandula angustifolia* (Lavender) Flower Oil

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 of Extinguishers, spraying recommended: 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, 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.

Skin 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: Clear mobile liquid

Odour: Fresh sweet floral-herbaceous, slightly woody

Flash point °C: < 60°C

Specific gravity@ 20°C: 0.870 - 0.898

Refractive index @ 20°C: 1.455 - 1.472

Solubility in 75% ethanol @ 20°C: 1+ 2

Ester content (as linalyl acetate): 40 - 42%

Solubility in vegetable oils: Soluble

Solubility in water: Insoluble

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 (however see section 16) 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): n/a

Air (IATA): n/a

Sea (IMDG): n/a

CHIP: See section 15

15. REGULATORY INFORMATION.

HAZARDS: Harmful

SYMBOLS: Xn

RISK PHRASES: R38 Irritating to skin

R43 May cause sensitisation by skin contact

R52/53 Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment

R65 Harmful: May cause lung damage if swallowed

SAFETY PHRASES: S24 Avoid contact with skin

S62 If swallowed, do not induce vomiting, seek medical advice immediately and show the container or label

16. OTHER INFORMATION.

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