

MATERIAL SAFETY DATA SHEET.

1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

PRODUCT NAME: **Angelica root oil**

SUPPLIER: Norfolk Trading, 1 Rigby's Court, Norwich NR2 1NT UK

Telephone +44 (0)1603 610 883

2. COMPOSITION / INFORMATION ON INGREDIENTS.

DEFINITION/BOTANICAL ORIGIN: The volatile oil obtained from the roots of *Angelica archangelica*.

H-No: N/A	CAS No: 84775-41-7	Status: natural
CoE No: 183	FEMA: 2088	Additives: none
FDA: 182.10	IFRA: not restricted	Application: N/A
RIFM: monograph	EINECS: 283-871-1	RTECS: N/A
INCI name: Angelica archangelica		FCCIV: N/A

3. HAZARDS IDENTIFICATION:

R10 Flammable liquid

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 CO ₂ , 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 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 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 deep amber
APPEARANCE:	Slightly viscous liquid
ODOUR:	Warm, pungent
FLASH-POINT °C:	45
SPECIFIC GRAVITY @ 20°C:	0.850 to 0.880
REFRACTIVE INDEX @ 20°C:	1.473 to 1.487
OPTICAL ROTATION @ 20°C:	0 to +46
SOLUBILITY IN 90% ETHANOL:	1+10

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.

Photo-toxic: See section 16.

IFRA recommendation below is based on the RIFM phototoxicity results and the observed no-effects level. Opdyke (1975) FCT 13,713 special issue II.

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: Class 3 item 31/c RID No 301; ADR RN N/2301
Air (IATA/ICAO): Class 3 Packaging group III
SEA (IMDG): 3036-1 Class 3
CHIP: See section 15

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

HAZARDS:
SYMBOLS:
RISK PHRASES: R10 Flammable liquid
SAFETY PHRASES:

16. OTHER INFORMATION.

UN 1169: applies
Conc. % Limits: IFRA recommends that for areas exposed to sunshine, angelica root oil be limited to a max. of 3.9% in fragrance compound (equivalent to 0.78% in the final product) except for bath products, soaps and other products which are washed off the skin.

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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