

## Carrot Seed

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### MATERIAL SAFETY DATA SHEET

ACCORDING TO EC LEGISLATION 91/155/E EC

Date created: August 2002

Date revised: June 2005

#### 1. Identification:

Commercial name: Carrot Seed essential oil.

Botanical Nomenclature: *Daucus carota*.

INCI name: *Daucus carota*.

CAS number: 8015-88-1

EINECS CAS number: 84929-61-3

EEC Number: 282-545-1

#### 2. Composition:

Main components:  $\beta$ -Bisabolene, carotol.

Additives (e.g. carriers, preservatives, antioxidants): Nil.

#### 3. Potential Health Hazards:

Inhalation: None identified.

Skin: Concentrated liquid and vapours irritating to skin by prolonged exposure.

Eyes: Irritating to eyes with possible damage.

Ingestion: Harmful if swallowed.

#### 4. First aid:

Inhalation: If discomfort is felt, remove person to a well ventilated area with plenty of fresh air.

Skin: Remove contaminated clothing. Wash affected area with plenty of soap and water.

Eyes: Flush immediately with plenty of cool water for 10 to 20 minutes. Seek medical advice

from a Medical Doctor.

Ingestion: Seek immediate medical care.

#### 5. In case of fire:

Extinguishing Media: Foam, Carbon dioxide.

Do not use: Water.

Special precautions: wear breathing apparatus as toxic vapours may be released during fire.

#### 6. Spill and Leak Procedure:

Individual precautions: Eliminate sources of ignition. Keep area well ventilated and isolate the spill.

Environmental protection: Prevent the liquid from entering the drains and sewers.

Cleaning methods: Soak up the spill using inert absorbents. For large spills use pumps.

#### 7. Handling and storage:

Store in a cool, dry and dark place in suitable containers (aluminium cans or lacquer lined steel drums).

Handle in a well ventilated area.

Keep away from sources of heat and ignition.

#### 8. Personal Protection / Exposure control:

Respiratory protection: wear breathing apparatus when working in an area of high vapour concentration.

Skin protection: Use protective gloves. Wear protective clothing when possibility exists of contact.

Eye protection: Goggles should be worn.

General precautions: Use good industrial hygiene practise.

## Carrot Seed

Light yellow liquid

### 9. Physiochemical properties:

#### Appearance:

Earthy, woody and root-like

#### Odour:

pH:

Neutral

Not available

#### Boiling point:

48°C

#### Flash point:

#### Autoignition Temperature:

Not available

Not available

#### Explosion Limits:

#### Vapour pressure (25°C):

Not available

>1 (air=1)

#### Vapour Density:

#### Specific Gravity (20°C):

0.870 to 0.945

#### Optical Rotation (20°C):

+50° to 60°

#### Refractive Index (20°C):

1.4800 to 1.500

#### Solubility in water (20°):

Negligible

#### Partition Coefficient log P o/w:

Not available

#### Evaporation rate:

<1 (Butyl Acetate=1)

### 10. Stability and Reactivity:

Chemical Stability: Stable.

Conditions to avoid: Normally stable. Not reactive with water.

Hazardous Decomposition Products: Not available.

Carrot Seed

11. Sensitisers:  
Limonene 0.27%

5 g/kg in rabbits.

12. Toxicological Information:

According to RIFM- Monograph:

Acute Toxicity: Oral LD50: 5 g/kg in rats.  
Dermal LD50:

Irritation:

Tested without irritation at 4%.

Sensitisation:

Tested without sensitisation at 4%.

Phototoxicity:

No phototoxic reaction reported.

13. Ecotoxicological information:

Fish Toxicity: LCO/EC50: Not available.

Bacteriotoxicity: ECO/EC50: Not available.

14. Disposal Method:

Check Federal, State and Local Regulations.

15. Transport Information:

UN Number 1993: Proper shipping name: Flammable Liquid N.O.S.

Hazard Class: 3.3 Packing group: III

Transport Safety: Air (ATA/ICAO)

2/PAX309/CA310/III

Sea (IMDG-Code): 3.3/III

Rail (RID): 3.31c

Road (ADR): 3.31c

16. Regulatory Information

The British Essential Oil Association Chip Regulations 2002

Hazard Symbols: Xn

Risk Phrases:

R10, 65

H/C %: 50

Safety Phrases: S62

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FOR AND ON BEHALF OF SHIRLEY PRICE AROMATHERAPY LTD:  
P.I Brealey..... (MANAGING DIRECTOR)

DATE: