

**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.*

### **9. Physiochemical properties:**

Appearance:	<i>Light yellow liquid</i>
Odour:	<i>Earthy, woody and root-like</i>
pH:	<i>Neutral</i>
Boiling point:	<i>Not available</i>
Flash point:	<i>48°C</i>
Autoignition Temperature:	<i>Not available</i>
Explosion Limits:	<i>Not available</i>
Vapour pressure (25°C):	<i>Not available</i>
Vapour Density:	<i>&gt;1 (air=1)</i>
Specific Gravity (20°C):	<i>0.870 to 0.945</i>
Optical Rotation (20°C):	<i>+50° to 60°</i>
Refractive Index (20°C):	<i>1.4800 to 1.500</i>
Solubility in water (20°):	<i>Negligible</i>
Partition Coefficient log P o/w:	<i>Not available</i>
Evaporation rate:	<i>&lt;1 (Butyl Acetate=1)</i>

### **10. Stability and Reactivity:**

Chemical Stability: *Stable.*

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

Hazardous Decomposition Products: *Not available.*

### **11. Sensitisers:**

Limonene 0.27%

### **12. Toxicological Information:**

According to RIFM- Monograph:

Acute Toxicity: *Oral LD<sub>50</sub>: 5 g/kg in rats.*  
*Dermal LD<sub>50</sub>: 5 g/kg in rabbits.*

Irritation: *Tested without irritation at 4%.*

Sensitisation: *Tested without sensitisation at 4%.*

Phototoxicity: *No phototoxic reaction reported.*

### **13. Ecotoxicological information:**

Fish Toxicity: LCO/EC<sub>50</sub>: *Not available.*

Bacteriotocity: ECO/EC<sub>50</sub>: *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 PHOENIX NATURAL PRODUCTS:

J.S. CHANA..... (MANAGING DIRECTOR)

DATE:.....