

**SunRose Aromatics, LLC**  
**1120 Dean Avenue**  
**Bronx, N.Y. 10465**  
**(718)-794-0391**

[www.sunrosearomatics.com](http://www.sunrosearomatics.com)

[SunRose112@AOL.Com](mailto:SunRose112@AOL.Com)

## **MATERIAL SAFETY DATA SHEET**

Product Name: **Carrot Seed Oil**

Botanical Name: **Daucus carota**

Country of Origin: **Hungary**

Family:

### Section 1. Composition/Information of Ingredients

Method of Extraction:

CAS No: 8015-88-1

FEMA: 2244

H-No:

CoE: 173

FDA: 182.20

RIFM: monograph

IFRA: not restricted

EINECS: 284-545-1

Status: natural

FFCIV: official

### Section 2. Hazards Identification

### Section 3. First Aid Measures

INHALATION: Remove 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 and 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).

### Section 4. Fire Fighting Measures

EXTINGUISHING MEDIA RECOMMENDED: Use CO<sub>2</sub>, 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 vapor inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing. Avoid

strong oxidizing agents.

EXTINGUISHING PROCEDURES: Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

#### Section 6. Accidental Release Measures

PERSONAL PRECAUTIONS: Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (safety glasses, water-proof boots, suitable protective clothing) in case of major spillages.

ENVIRONMENT PRECAUTIONS: Keep away from drains, soils, surface & groundwaters.

CLEANING UP METHODS FOR SPILLAGE: 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.

#### Section 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 and 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.

#### Section 8. Exposure Controls/Personal Protection

RESPIRATORY PROTECTION: Avoid breathing product vapor. 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.

#### Section 9. Physical and Chemical Properties

COLOUR: Greenish yellow liquid

APPEARANCE: Mobile liquid

ODOUR: Pleasant aromatic

FLAVOUR:

FLASH-POINT °C: 47

RELATIVE DENSITY @  $d_{25}^{25}$ :

OPTICAL ROTATION @ 20°C:

REFRACTIVE INDEX @ 20°C: 1.486

SOLUBILITY IN 90% ETHANOL @ 20°C: 1+0.5

SOLUBILITY IN VEGETABLE OILS:

SOLUBILITY IN WATER:

ADDITIONAL DATA:

TYPICAL ANALYSIS BY GC/MS:

#### Section 10. Stability & Reactivity

REACTIVITY: It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.

DECOMPOSITION: Liable to cause smoke & acid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

Section 11. Toxicological Information

Section 12. Ecological Information

BIODEGRADABILITY: Data not available

PRECAUTIONS: Prevent surface contamination of soil, ground & surface water.

Section 13. Disposal Considerations

Avoid disposing to drainage systems and into the environment. Seek expert advice.

Section 14. Transport Regulations

**Road (ADR/RID):**

**Air (IATA):**

**Sea (IMDG):**

UN 1993:

Section 15. Regulatory Information

ACCORDING TO DIRECTIVE 88/379/EEC

HAZARDS:

SYMBOLS:

RISK PHRASES:

SAFETY PHRASES:

Section 16. Other Information

Section 17. Packaging

Type	Suitability
Glass	Yes
Lacquer Lined steel/tin	Yes
Aluminum	Yes
HPPE	No
F/HDPE	No
Other plastic	No

Section 18. Shelf Life

Min 12 months when stored within advised conditions.

Section 19. Requirements

In-line with general product specification. Always satisfy suitability for specific application.  
Retest after 6 months.

Section 20.                      Disclaimer

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