

Safety Data Sheet

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

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|--|---|---------|-----------|------------|-----------|
| Product Name | Carrot seed oil | | | | |
| Biological Definition | The volatile oil steam usually distilled from the seeds of one of the subspecies of the wild carrot <i>Daucus carota</i> L. (Apiaceae). | | | | |
| INCI Name | Daucus carota seed oil | | | | |
| Synonyms & Trade Names | Daucus carota fruit oil. Wild carrot seed oil. | | | | |
| Supplier | | | | | |
| Reach Registration Number (According to EU Reg 1907/2006) | N/A | | | | |
| FEMA No. | 2244 | FDA No. | §182.20 | CoE No. | 173 |
| CAS-No | 8015-88-1 | EC No. | 284-545-1 | EINECS No. | 284-545-1 |

02. HAZARDS IDENTIFICATION

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| Classification (1999/45) | Xn; R10-43-52/53-65, S24-37-62 | | | | |
| Classification (EC 1272/2008) | UN-GHS: FL 3, AH 1, SCI 2, SS 1, EH A3,C3 EU-CLP: FL 3, AH 1, SCI 2, SS 1 | | | | |
| Label in accordance with (EC) No 1272/2008 |  GHS02  GHS07  GHS08  GHS09 | | | | |
| Signal Word | Danger | | | | |
| Contains | Pinenes, geranyl acetate, myrcene, para-cymene, limonene, carotol (exceptionally to 70%), daucol. | | | | |
| Hazard Statements | H226 Flammable liquid and vapour H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H317 May cause an allergic skin reaction | | | | |
| Precautionary Statements | P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P331 Do NOT induce vomiting P262 Do not get in eyes, on skin or on clothing P280 Wear protective gloves/protective clothing/eye protection/face protection. | | | | |
| Supplementary Precautionary Statements | --- | | | | |
| PBT or vPvB according to Annex XIII | No | | | | |
| Adverse physio-chemical properties | Combustible but will not self-ignite | | | | |
| Adverse effects on human health | Can cause skin and eye irritation | | | | |

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03. COMPOSITION/INFORMATION ON INGREDIENTS

To 15% Pinenes UN-GHS: ATO 5(3700), SCI 2, SS 1

4% to (exceptionally) 42% Geranyl acetate UN-GHS: SCI 3; EH A2,C2

1.4% para-Cymene UN-GHS: ATO 5(4750); SCI 3; EH A2,C2

1.2% Myrcene UN-GHS: EDI 2A, SCI 2

1% Limonene UN-GHS: SCI 2; SS 1; EH A1,C1

04. FIRST AID MEASURES

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| General Information | See categories below |
| Inhalation | Remove from exposure area to fresh air. Contact a doctor if necessary. |
| Ingestion | Wash mouth out with water and obtain medical advice immediately. |
| Skin Contact | Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage. |
| Eye Contact | Flush with plenty of water and seek medical advice if necessary. |

05. FIRE-FIGHTING MEASURES

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| Extinguishing Media | 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 Fire Fighting Procedures | Wear protective clothing. Avoid inhalation of vapours. |
| Specific Hazards | None |
| Protective Measures in Fire | Closed containers may build up pressure when exposed to heat and should be cooled with water spray |

06. ACCIDENTAL RELEASE MEASURES

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| Personal Precautions | Maintain good occupational and personal hygiene. Avoid contact with skin and eyes |
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Your Natural Way

M. Karaoli 30, Dafni, tk 17235, Athens Greece
Phone: +30 2130351443 Email: info@yournaturalway.gr

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| Environmental Precautions | Do not discharge directly into drains or soil. Keep away from surface and ground water |
| Spill Clean Up Methods | Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations. |

07. HANDLING AND STORAGE

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| Usage Precautions | Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling. |
| Storage Precautions | 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. |

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Protective Equipment |   Goggles Gloves |
| Engineering Measures | Ensure good ventilation of working area. |
| Respiratory Equipment | As required. Avoid breathing product vapour. |
| Hand Protection | Avoid all skin contact. Use chemically resistant gloves if required. |
| Eye Protection | Use safety glasses. |
| Other Protection | As required |
| Hygiene Measures | Wash hands with soap & water after handling |

09. PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance | Mobile liquid |
| Colour | Light yellow to amber |
| Odour | Fresh herbaceous with earthy woody undertone |
| Relative Density | 0.920 to 0.960 @ 20°C |
| Flash Point (°C) | 58 c/c |
| Refractive Index | 1.4900 to 1.5100 @ 20°C |
| Melting Point (°C) | Data not found |
| Boiling Point (°C) | Data not found |

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| Vapour Pressure | Data not found |
| Solubility in Water @20°C | 8.51 mg/L @ 25°C (est.) |
| Auto-ignition temperature (°C) | Data not found |

10. STABILITY AND REACTIVITY

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| Stability | It presents no significant reactivity hazards, by itself or in contact with water. |
| Conditions to Avoid | Avoid storage temperatures above 25°C |
| Materials to Avoid | Avoid contact with strong acids, alkalis and oxidising agents. |
| Hazardous Decomposition Products | Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed. |

11. TOXOLOGICAL INFORMATION

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| Acute Toxicity | Acute oral toxicity (orl, rbt): >5g/Kg (Opdyke 1976 pp 705-706) Acute dermal toxicity (skn rbt): slightly irritating undiluted. Not irritating or sensitising at 4% on 25 human volunteers (Opdyke 1976 pp 705-706). |
| Skin corrosion / irritation | Category 2 under EC 1272/2008. According to an article on skin irritation (<i>FCT XAV 14</i> , 75, 706), carrot seed oil (500mg over 24 hr.) produced mild irritation in rabbit and at 100% produced mild irritation in guinea pig skin. |
| Serious eye damage / irritation | Potential exists. Wear googles/face protection when handling. |
| Respiratory or skin sensitisation | Skin sensitiser Category 1 under EC 1272/2008 |
| Germ Cell Mutagenicity | Not determined... |
| Carcinogenicity | Not determined. |
| Reproductive toxicity | Not listed as a reprotoxicant. |
| STOT-single exposure | Data not found |
| STOT-repeated exposure | Data not found |

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| Aspiration hazard | Aspiration hazard Category 1 under EC 1272/2008 |
| Photo-toxicity | Not photo-toxic (Opdyke 1976) pp 705-706 |
| Other Information | None |

12. ECOLOGICAL INFORMATION

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| Ecotoxicity | Hazardous to the aquatic environment Chronic hazard Category 2 according to EC 1272/2008 |
| Mobility | Not determined |
| Persistence & Biodegradability | Not determined |
| Bioaccumulation Potential | Not determined |
| PBT Assessment Results | Not found |
| Precautions | Avoid discharge into the environment especially onto land, waterways and the sea. |

13. DISPOSAL CONSIDERATIONS

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| Disposal Methods | Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company. |
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14. TRANSPORT INFORMATION

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| Warning Icon |  |
| Proper Shipping Name | EXTRACTS, AROMATIC, LIQUID |
| UN No. Road | UN 1169 |
| ADR Class | Class 3 |

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| Hazard No (ADR) | 30 |
| Hazchem Code | •3YE |
| UN No. SEA | UN 1169 |
| IMDG Class | Class 3 |
| IMDG Pack Gr. | Pk Gp III |
| EMS | F-E, S-D |
| UN No. AIR | UN 1169 |
| Air Class | Class 3 |
| Air Pack Gr. | Pk Gp III |

15. REGULATORY INFORMATION

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| EU Directives | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 th Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1994/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments. |
| Statutory Instruments | The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I. 2009 No 716). |
| Approved Code of Practice | Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations |
| Guidance Notes | Workplace Exposure Limits EH40. CHIP for everyone HSG 108. |

16. OTHER INFORMATION

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| Revision Date | 1/2015 |
| Rev No/Repl, SDS Generated | 1 |

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| Risk Phrases in Full | <p>R10 Flammable 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.</p> |
| Hazard Statements in Full | <p>H226 Flammable liquid and vapour H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H317 May cause an allergic skin reaction</p> |
| Other Information | <p>Complies with REACH guidance for SDS as circulated by ECHA 2011</p> |

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.