





Safety Data Sheet

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

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

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

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

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

Personal Precautions	Maintain good occupational and personal hygiene. Avoid contact with skin and eyes
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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

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

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

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

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

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 goggles/face protection when handling.
Respiratory or skin sensitisation	Skin sensitizer 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

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

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

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

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 199/45/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

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

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Risk Phrases in Full	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.
Hazard Statements in Full	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
Other Information	Complies with REACH guidance for SDS as circulated by ECHA 2011

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.