

**01. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY UNDERTAKING****1.1 Product Identifier**

1.1 Product Identifier	Carum Carvi Seed Oil is the fixed oil obtained from the seeds of Caraway, Carum carvi L.,				
Biological Definition	Carum Carvi Seed Oil.				
INCI Name	-				
Synonyms Trade Names	-				
CAS Number	8000-42-8	EC Number	288-922-1	EINECS No.	288-922-1

1.2 Relative identified uses of the substance or mixture and uses advised against

No additional data available.

1.3 Details of the supplier of the safety data sheet

Calmer Solutions Limited - Hadresham, Woolborough Lane, Outwood, Surrey, England RH1 5QR - Reg No 4992013

1.4 Emergency Telephone Number

In case of a medical emergency following exposure to a chemical, call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 (UK Only)

02. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

The Full Text for all Hazard Statements are Displayed in Section 16.

Classification (EC 1272 / 2008)

Physical hazards Flammable liquids Category 3. Health hazards Acute toxicity, oral Category 4. Acute toxicity, dermal Category 4. Skin corrosion/irritation Category 2. Sensitization, skin Category 1. Aspiration hazard Category 1. Hazardous to the aquatic environment, acute hazard Category 1. Environmental hazards Hazardous to the aquatic environment, long-term hazard Category 1.

GHS08

GHS09

GHS07

GHS02

None



Signal Word

Danger

Contains

Limonene, Carvone,

Hazard Statements

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Supplementary Precautionary Statements

P301 IF SWALLOWED:
P310 Immediately call a POISON CENTER or doctor/physician.
P303 IF ON SKIN (or hair):
P353 Rinse skin with water/shower.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see... on this label).
P330 Rinse mouth.
P331 Do NOT induce vomiting.
P333 If skin irritation or rash occurs:
P313 Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
Take off contaminated clothing and wash it before reuse.
P370 In case of fire:
P378 Use... for extinction.
P391 Collect spillage.
P403 Store in a well-ventilated place.
P235 Keep cool.
P501 Dispose of contents/container to...
P405 Store locked up.

2.3 Other Hazards

PBT or PvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

50 - 54 % Limonene

CAS No: 5989-27-5 EC No: 227-813-5

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

40 - 44 % Carvone

CAS No: 99-49-0 EC No: 202-759-5

Classification (EC 1272/2008): Acute Tox. 4 - H302, Skin Sens. 1 - H317

0 - 0.46 % Myrcene

CAS No: 123-35-3 EC No: 204-622-5

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Aquatic Chronic 3 - H412

0 - 0.1 % Sabinene

CAS No: 3387-41-5 EC No: 222-212-4

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Acute Tox. 2 - H330

04. FIRST AID MEASURES

4.1 Description of first aid measures

41 Inhalation:	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.
41 Ingestion:	Call a physician or poison control centre immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.
41 Eye:	Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.
41 Skin:	Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.

4.2 Most important symptoms and effects, both acute and delayed

Dermatitis. Rash. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

No additional data available.

05. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Carbon dioxide, Chemical Powder or Foam. Do not use a direct stream of water.

5.2 Special hazards arising from the product

In case of fire Carbon Monoxide and other unidentified organic compounds may be released.

5.3 Advice for firefighters

In case of insufficient ventilation use suitable respiratory equipment. Wear chemical protective clothing.

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapour.

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Retain and dispose of contaminated water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment.

6.3 Methods and material for containment and clearing up

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. The product is immiscible with water and will spread on the water surface. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers. Small Spills: Wipe with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spill material to original containers for re-use. This material and its container must be disposed of as hazardous waste.

6.4 Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

7.2 Conditions for safe storage, including and incompatibilities

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

7.3 Specific end use(s)

No additional data available.

08. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

No exposure limits noted for ingredient(s).

8.2 Exposure controls

Protective Equipment

Goggles



Gloves



Overalls



None

None

Process Conditions:

Provide eyewash station.

Engineering Measures:

Use explosion-proof ventilation equipment to stay below exposure limits.

Respiratory Equipment:

Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.

Hand Protection:	Chemical resistant gloves (PVC).
Eye Protection:	Face shield is recommended. Wear safety glasses with side shields (or goggles).
Other Protection:	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.
Hygiene Measures:	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection:	Use personal protection according to Directive 89/686/EEC.
Skin Protection	Chemical resistant gloves. Other : Use of an impervious apron is recommended.
Environmental Exposure Controls:	Avoid discharging into drainage water. Only eliminate by authorised companies.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid.
Colour:	Pale yellow to amber yellow.
Flash Point:	133.0 °F (56.1 °C) Closed Cup.
Odour:	Flowery, slightly woody.
Relative Density:	0.904 - 0.920 @ 20°C
Refractive:	1.484 - 1.490 @ 20°C
Melting Point:	No additional data available.
Boiling:	No additional data available.
Vapour:	0.1 mm Hg at 25 °C
Solubility:	Insoluble in water.
Auto Ignition:	No additional data available.

9.2 Other Information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2 Chemical Stability

Material is stable under normal conditions.

10.3 Possible hazardous reactions

Not expected under normal conditions of use.

10.4 Conditions to avoid

Avoid extreme heat.

10.5 Incompatible materials

Avoid contact with strong acids, alkalis or oxidising agents.

10.6 Hazardous Decomposition Products

Not expected.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity:	Information on likely routes of exposure Ingestion: May be fatal if swallowed and enters airways. Harmful if swallowed. Inhalation: May be fatal if swallowed and enters airways. Skin contact: Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Eye contact: Direct contact with eyes may cause temporary irritation. Acute toxicity: May be fatal if swallowed and enters airways. Harmful in contact with skin. May cause an allergic skin reaction. CARAWAY OIL (CAS 8000-42-8) Dermal LD50 Rabbit 1780 mg/kg Oral LD50 Rat 3500 mg/kg* Estimates for product may be based on additional component data not shown.
Respiratory or skin sensitisation:	Respiratory sensitisation : Not available. Skin sensitization : May cause an allergic skin reaction.
Skin corrosion/irritation:	Causes skin irritation.
Serious Eye damage/irritation:	Direct contact with eyes may cause temporary irritation.
Germ Cell Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or geno-toxic.
Carcinogenicity:	OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.
Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.
STOT Single exposure:	No additional data available.
STOT Repeated exposure:	No additional data available.
Photo-toxicity:	May be fatal if swallowed and enters airways.
Aspiration hazard:	No additional data available.
Other Information:	No additional data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

12.2 Persistence Degradability

No data is available on the degradability of this product.

12.3 Bioaccumulation Potential

Bioaccumulative potential : No data available on bioaccumulation.

12.4 Mobility in soil

No additional data available.

12.5 Results of PBT and vPvB Assessment

No additional data available.

12.6 Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/containers in accordance with local/regional/national/international regulations. Waste from residues / unused products Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

14.1 UN number

Road:	1197
Sea:	1197
Air:	1197

14.2 UN Proper shipping name

EXTRACTS, FLAVO

14.3 Transport hazard class(es)

ADR/RID/ADN Class 3 ADR/RID/ADN Class 3 IMDG Class 3 ICAO Class/Division 3 Transport Labels

EXTRACTS, FLAVO

EXTRACTS, FLAVO

EXTRACTS, FLAVO

14.4 Packing group

ADR/RID/ADN Packing group III IMDG Packing group III ICAO Packing group III

14.5 Environmental Hazards

Environmentally Hazardous Substance/Marine Pollutant

Umwelt_140

EXTRACTS, FLAVO

EXTRACTS, FLAVO



14.6 Special precautions for users

EMS F-E, S-DTunnel Restriction Code D/E

14.7 Transport in bulk according to Annex II of MARLPOL73/78 and the IBC Code

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15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance

Statutory Instruments The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).
Guidance Notes Workplace Exposure Limits EH40. CHIP for everyone HSG(108). EU Legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2 Chemical safety assessment

No additional information available.

16. OTHER INFORMATION

Hazard or precaution	H226 Flammable liquid and vapour. H302 + H312 Harmful if swallowed or in contact with skin. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H330 Fatal if inhaled. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
Other Information::	None.
Revision Date:	4/1/2022
Reason:	New SDS
Revision Number:	2

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