



## Safety Data Sheet

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

<b>1.1 Product Identifier</b>					
Product Name		Caraway Seed Oil.			
Biological Definition		Carum Carvi Seed Oil is the fixed oil obtained from the seeds of Caraway, <i>Carum carvi L.</i> , <i>Apiaceae</i> .			
INCI Name		Carum Carvi Seed Oil.			
Synonyms & Trade Names		-			
CAS-No	8000-42-8	EC No.	N/A	EINECS No.	N/A
<b>1.2 Relative identified uses of the substance or mixture and uses advised against</b>					
No additional data available.					
<b>1.3 Details of the supplier of the safety data sheet</b>					
Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1					
<b>1.4 Emergency Tel. No.</b>		604-540-8700 (Monday-Friday 8:30 am-4:30 pm)			

### 02. HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
The Full Text for all Hazard Statements are Displayed in Section 16.	
Classification (EC 1272/2008)	
<p><u>Physical hazards</u> Flammable liquids Category 3.</p> <p><u>Health hazards</u> 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.</p> <p><u>Environmental hazards</u> Hazardous to the aquatic environment, long-term hazard Category 1.</p>	
<b>2.2 Label Elements</b>	
Label in accordance with (EC) No 1272/2008	
GHS08    GHS09    GHS07    GHS02	
Signal Word	Danger.
Contains	Limonene, Carvone.

Hazard Statements	
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.
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 mist or vapour.
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.
P280	Wear protective gloves/eye protection/face protection.

Supplementary Precautionary Statements	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 +P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see this label).
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use appropriate media to extinguish.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
PP501	Dispose of contents/container in accordance with local / regional / national / international regulations.
P405	Store locked up.

### 2.3 Other Hazards

PBT or vPvB 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

<54.0% Limonene CAS-No.: 5989-27-5 EC No.: 227-813-5

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

<p><b>&lt;44.0% Carvone</b> CAS-No.: 99-49-0-1 EC No.: 202-759-5</p> <p>Classification (EC 1272/2008) Acute Tox. 4 - H302, Skin Sens. 1 - H317</p>
<p><b>&lt;0.46% Myrcene (7-methyl-3-methyleneocta-1,6-diene)</b> CAS-No.: 123-35-3 EC No.: 204-622-5</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Asp. Tox. 1 - H304</p>
<p><b>&lt;0.10% Sabinene</b> CAS-No.: 3387-41-5 EC No.: 222-212-4</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 - H226, Acute Tox 2 H330</p>

## 04. FIRST AID MEASURES

<b>4.1 Description of first aid measures</b>	
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.
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.
Skin Contact	Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.
Eye Contact	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.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
Dermatitis. Rash. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.	
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
No additional data available.	

## 05. FIRE-FIGHTING MEASURES

<b>5.1 Extinguishing Media</b>	
Water spray, fog, CO2, dry chemical or alcohol resistant foam.	
Do not use a solid water stream as it may scatter and spread fire.	
<b>5.2 Special hazards arising from the product</b>	
Fire may produce irritating, corrosive and/or toxic gases.	
<b>5.3 Advice for firefighters</b>	
<p>Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural : firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires.</p> <p><b>Fire Fighting Equipment/Instructions.</b>  In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.  Use water spray to cool unopened containers.</p>	

### General Fire Hazards

Static charges generated by emptying package in or near flammable vapour may cause flash fire.

## 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 wash 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 cleaning 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 up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in 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 any 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	
 	
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.
Odour	Flowery, slightly woody.
Relative Density	0.904 - 0.920 @ 20°C
Flash Point (°C)	133.0 °F (56.1 °C) Closed Cup.
Refractive Index	1.484 - 1.490 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available.
Vapour Pressure	0.1 mm Hg at 25 °C
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	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

No dangerous reaction known under conditions of normal use.
<b>10.4 Conditions to Avoid</b>
Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>10.5 Incompatible materials</b>
Strong oxidizing agents.
<b>10.6 Hazardous Decomposition Products</b>
No hazardous decomposition products if stored and handled as indicated.

## 11. TOXOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>	
Acute Toxicity	<p><b>Information on likely routes of exposure</b></p> <p><b>Ingestion:</b> May be fatal if swallowed and enters airways. Harmful if swallowed.</p> <p><b>Inhalation:</b> May be fatal if swallowed and enters airways.</p> <p><b>Skin contact:</b> Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.</p> <p><b>Eye contact:</b> Direct contact with eyes may cause temporary irritation.</p> <p><b>Acute toxicity:</b> May be fatal if swallowed and enters airways. Harmful in contact with skin. May cause an allergic skin reaction.</p> <p>CARAWAY OIL (CAS 8000-42-8)</p> <p>Dermal LD50 Rabbit      1780 mg/kg</p> <p>Oral LD50 Rat          3500 mg/kg</p> <p>* Estimates for product may be based on additional component data not shown.</p>
Skin corrosion / irritation	Causes skin irritation.
Serious eye damage / irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitisation	<b>Respiratory sensitisation :</b> Not available. <b>Skin sensitization :</b> May cause an allergic skin reaction.
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.
Aspiration hazard	May be fatal if swallowed and enters airways.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

## 12. ECOLOGICAL INFORMATION


<b>12.1 Toxicity</b>
----------------------


Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.
<b>12.2 Persistence &amp; degradability</b>
No data is available on the degradability of this product.
<b>12.3 Bioaccumulation Potential</b>
Bioaccumulative potential : No data available on bioaccumulation.
<b>12.4 Mobility in soil</b>
No additional data available.
<b>12.5 Results of PBT and vPvB Assessment</b>
No additional data available.
<b>12.6 Other adverse effects</b>
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

<b>13.1 Waste treatment methods</b>
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/container in accordance with local/regional/national/international regulations.
<b>Waste from residues / unused products</b>
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).
<b>Contaminated packaging</b>
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

<b>14.1 UN number</b>	
UN No. Road	1197
UN No. SEA	1197
UN No. AIR	1197
<b>14.2 UN proper shipping name</b>	
EXTRACTS, FLAVOURING, LIQUID (CARAWAY OIL).	
<b>14.3 Transport hazard class(es)</b>	
ADR/RID/ADN Class 3 ADR/RID/ADN Class 3 IMDG Class 3 ICAO Class/Division 3	
Transport Labels	
	

<b>14.4 Packing group</b>
ADR/RID/ADN Packing group III IMDG Packing group III ICAO Packing group III
<b>14.5 Environmental hazards</b>
Environmentally Hazardous Substance/Marine Pollutant  
<b>14.6 Special precautions for user</b>
EMS F-E, S-D Tunnel Restriction Code D/E
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code</b>
-

## 15. REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
<p><u>Statutory Instruments</u> The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).</p> <p><u>Guidance Notes</u> Workplace Exposure Limits EH40. CHIP for everyone HSG(108).</p> <p><u>EU Legislation</u> 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.</p>
<b>15.2 Chemical safety assessment</b>
No additional information available.

## 16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	H226 H302 + H312 H304 H315 H317 H319 H330 H400 H410	Flammable liquid and vapour. Harmful if swallowed or in contact with skin. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Fatal if inhaled. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Other Information	None.	
Revision Date	July 20, 2015	
Reason for revision	New SDS.	
Rev No/Repl, SDS Generated	01	



**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.**