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MATERIAL SAFETY DATA SHEET

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

1.1 Product Identifier					
Product Name		Dill Seed Oil		WHC418	
Biological Definition		Anethum Graveolens Seed Oil is an essential oil obtained from the seeds of the Dill, <i>Anethum graveolens L., Apiaceae</i> . It contains carvone (50%), D-limonene, phellandrene and other terpenes.			
INCI Name		Anethum Graveolens Seed Oil			
Synonyms & Trade Names		-			
CAS-No	90028-03-8 / 8006-75-5	EC No.	289-790-8 / -	EINECS No.	289-790-8 / -
1.2 Relative identified uses of the substance or mixture and uses advised against					
Suitable for cosmetic, flavour, fragrance and professional applications only.					
1.3 Details of the supplier of the safety data sheet					
1.4 Emergency Tel. No.					

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture			
The full text for all Hazard Statements displayed in Section 16.			
Classification (EC 1272/2008)			
Physical hazards:	Flam. Liq. 3 – H226		
Health hazards:	Asp. Tox. 1 – H304, Skin Irrit. 2 – H315, Skin Sens. 1 – H317		
Environmental hazards:	Aquatic Acute 1 – H400, Aquatic Chronic 1 – H410		
2.2 Label Elements			
Label in accordance with (EC) No 1272/2008			
GHS02	GHS08	GHS07	GHS09
			
Signal Word	Danger.		
Contains	Limonene		
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. H410: Very toxic to aquatic life with long lasting effects.			
Precautionary Statements			
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.			

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P261: Avoid breathing vapours/spray.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P331: Do NOT induce vomiting.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P370+P378: In case of fire: Use carbon dioxide, dry chemical, foam to extinguish.
 P501: Dispose of contents in accordance with local, state or national legislation.

Supplementary Precautionary Statements

P264: Wash hands and exposed skin thoroughly after handling.

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

3.1 Substances

50% Carvone

CAS No: 99-49-0 EC No: 202-759-5
 Classification (EC 1272/2008) Skin Sens. 1 – H317

<43% Limonene

CAS No: 5989-27-5 EC No: 227-813-5
 Classification (EC 1272/2008) Flam Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

04. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove from exposure area to fresh air. Get medical advice/attention.
Ingestion	Do not induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Get medical advice/attention.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if any discomfort continues.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical advice/attention. Continue to rinse.

4.2 Most important symptoms and effects, both acute and delayed

Allergic contact dermatitis.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Extinguish with the following media: carbon dioxide, dry chemical, foam
Unsuitable extinguishing media: do not use water jet as an extinguisher, as this may scatter and spread fire.

5.2 Special hazards arising from the product

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.
Thermal decomposition or combustion products may include the following substances:
Carbon dioxide (CO₂), Carbon monoxide (CO), other toxic gases.
Containers close to fire should be removed or cooled with water.

5.3 Advice for firefighters

Avoid inhalation of generated fumes or vapours. Wear self-contained breathing apparatus and appropriate protective clothing.

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Handle the product using protective gloves resistant to the chemicals exposed. Avoid contact with skin and inhalation of its vapours. Maintain adequate ventilation in the working area after spilling.

6.2 Environmental Precautions

Do not discharge into drains, water courses or onto the ground. Keep away from surface and ground water.

6.3 Methods and material for containment and cleaning up.

Absorb with liquid binding material e.g. sand, diatomaceous earth.
Collect in closed and suitable containers for disposal. Prevent any material from entering drains or waterways. Wash spill site after removal with a detergent.

6.4 Reference to other sections

See sections 4, 7, 8 & 13.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only in area provided with adequate ventilation. Keep away from heat, sparks and open flame. Take necessary action to avoid static discharge as this might cause ignition of vapours.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly-closed, original container in a dry, cool and well-ventilated area, away from potential sources of ignition and protected from light.

7.3 Specific end use(s)

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No additional data available.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No additional data available.

8.2 Exposure controls

Protective Equipment



Process Conditions	Provide eyewash station.
Engineering Measures	Provide adequate ventilation or respiratory protection.
Respiratory Equipment	Generally unnecessary in a well ventilated area. If ventilation is insufficient, respiratory protection must be worn.
Hand Protection	Wear suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.
Eye Protection	Avoid contact with eyes. Wear safety goggles in accordance with standard EN166.
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Do not eat, drink or smoke during use. Remove and wash contaminated clothing before re-using.
Personal Protection	Use of chemical resistant clothing is recommended when handling.
Skin Protection	Wear appropriate protective clothing to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been exposed must be washed thoroughly.
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	Clear liquid.
Colour	Pale yellow.
Odour	Aniseed spicy.
Relative Density	Approx. 0.902 @ 20°C
Flash Point (°C)	48°C
Refractive Index	Approx. 1.486 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available.
Vapour Pressure	No additional data available.
Solubility in Water @20°C	No additional data available.

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Auto-ignition temperature (°C) | No additional data available.

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Presents no significant reactivity hazards. Stable under normal temperature conditions and recommended use.

10.2 Chemical stability

Stable under normal temperature and storage conditions and recommended use.

10.3 Possible hazardous reactions

Not expected under normal temperature conditions and recommended use.

10.4 Conditions to Avoid

Avoid heat, sparks and open flames. Avoid exposure to air over prolonged periods.

10.5 Incompatible materials

Avoid contact with strong acids, alkalis or oxidising agents.

10.6 Hazardous Decomposition Products

Not expected under normal temperature conditions and recommended use. Thermal decomposition may release/form oxides of carbon (carbon monoxide, carbon dioxide) and other toxic gases.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	Not classified.
Skin corrosion / irritation	Causes skin irritation.
Serious eye damage / irritation	Not classified.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
STOT-single exposure	Not classified.
STOT-repeated exposure	Not classified.
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

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

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12.2 Persistence & degradability

No additional data available.

12.3 Bioaccumulation Potential

No additional data available.

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

Do not discharge into the environment especially not into waterways, sewers and the sea.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not allow entry into drains or waterways.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste. Do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Dispose of via a certified disposal contractor.

14. TRANSPORT INFORMATION

14.1 UN number

UN No. Road	UN 1169
UN No. SEA	UN 1169
UN No. AIR	UN 1169

14.2 UN proper shipping name

EXTRACTS, AROMATIC, LIQUID

14.3 Transport hazard class(es)

ADR/RID

ADR/RID– Class 3

ADR Classification Code – F1

Special provisions – 601 604E

Limited quantities – 5L

Expected quantities – E1

Emergency Action Code – 3Y

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Tunnel Restriction Code – D/E

IMDG

IMDG – Class 3

Special Provisions – 601 640E

Limited quantities – 5L

Expected quantities – E1

IMDG EMS – F-E, S-D

Stowage and Handling – Category A

ICAO/IATA

ICAO/IATA– Class 3

IATA proper shipping name - EXTRACTS, AROMATIC, LIQUID

Expected quantities – E1

Transport Labels



14.4 Packing group

ADR/RID Packing group III

IMDG Packing group III

ICAO Packing group III

14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant.



14.6 Special precautions for user

See sections 6 – 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

No additional data available.

15. REGULATORY INFORMATION

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

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

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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 and/or Precautionary 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. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.
Other Information	No additional data available.
Revision Date	22/05/2020
Reason for revision	Updated SDS.
Rev No/Repl, SDS Generated	2

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