

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Dill Weed Organic Essential Oil
Botanical name	:	Anethum graveolens L.
FEMA	:	2383
INCI name	:	Anethum graveolens L. (Dill) Oil
CAS #	:	90028-03-8
Country of Origin	:	Bulgaria
EINECS #	:	289-790-8
Product use	:	Domestic and Industrial
Supplier	:	New Directions Aromatics Inc.
Address	:	6781 Columbus Road, Mississauga, Ontario, CANADA L5T 2G9
Fax	:	905-362-1926
Telephone number	:	905-362-1915
Emergency phone number	:	(613)-996-6666 CANUTEC 24 HOUR EMERGENCY

2. HAZARDS IDENTIFICATION

Emergency Overview

WHMIS Classification

B3 Combustible Liquid as per WHMIS regulations.

GHS Classification

Flammable Liquids - Category 3

Skin Corrosion/Irritation - Category 2

Sensitization skin 1.

Aspiration Hazard - Category 1

Hazardous to the aquatic environment - Chronic Category 1

GHS Label elements, including precautionary statements

Signal: Danger

Hazard statement(s)

H226	Flammable Liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H304	May be fatal if swallowed and enters airways.
H410	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking
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 or doctor/physician.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P331	Do not induce vomiting.
P332+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents and their containers in accordance with regional, national and international regulations.

3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
Carvone	2244-16-8	18-827-2	25 - 50%
Limonene	5989-27-5	227-813-5	20 - 32%
Alpha Phellandrene	99-83-2	202-792-5	17 - 32%

4. FIRST AID MEASURES

Eye contact

Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

Skin contact

Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

Inhalation

If inhaled, removed to fresh air. Get medical attention if symptoms appear.

Ingestion

Seek medical attention or contact local poison control center.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Foam, ABC powder, BC powder, Carbon Dioxide (CO2)

Unsuitable extinguishing media

D powder, Water.

DO NOT use water for direct extinguishing!

Special protective equipment and precautions for fire-fighters

Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or its combustible products

Hazardous decomposition products may be formed at extreme heat or if burned.

Resulting gases

Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.

Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Methods and materials for containment and cleaning up

Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

7. HANDLING AND STORAGE

Precautions for safe handling

No direct lighting. No smoking. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

Conditions for safe storage, including any incompatibilities

Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use. Store in dry location, at 5 – 15 °C and away of sunlight.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure controls

An eyewash fountain and / or safety shower should be available in the work area. Acceptable industrial hygiene practices should be maintained.

These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require additional precautions

Eyes

Use tightly sealed goggles.

Skin

If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment.

Ingestion

Not for ingestion.

Control parameters

Carvone -

TLV TWA - TLV STEL- VLE 8h- VLE short: None.

Alpha Phellandrene -

TLV TWA - TLV STEL- VLE 8h- VLE short: None.

Limonene -

TLV TWA - TLV STEL- VLE 8h- VLE short: None.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Transparant light yellow to yellow liquid.
Odor	:	Light and fresh, warm and spicy.
Flash point	:	52°C
Relative density	:	0.872 – 0.900 @ 20 °C
Solubility (ies)	:	Ethanol : 1:2 @ 20 °C Water : Insoluble

10. STABILITY AND REACTIVITY

Reactivity

This material presents no significant reactivity hazard.

Chemical stability

Chemically stable.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Avoid sparks, flame and other heat sources.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Carbon Oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Dill weed oil

oral-rat LD50 4040 mg/kg

oral-mouse LDLo 3000 mg/kg

skin-rabbit LD50 > 5000 mg/kg

Limonene -

Oral (rat) : LD50 4400 mg/kg

Oral (mice): LD50 > 5500 mg/kg

Dermal (rabbit): LD50 >2000 mg/kg

Alpha Fellandrene

oral-rat LD50 [sex: M,F] > 5700 mg/kg

oral-rat LD50 [sex: M,F] 1.87 ml/kg

Carvone

oral-rat LD50 3710 ul/kg

skin-rabbit LD50 4 ml/kg

Carcinogenicity

None of the components of this material are listed as a carcinogen.

Chronic toxicity

May cause allergic reactions on skin.

Reproductive toxicity

No adverse effects on reproduction are known.

Inhalation

Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.

Skin contact

Adverse skin effects should be prevented by normal care and personal hygiene.

Eye contact

Possible irritation should be prevented by wearing safety glasses.

Ingestion

Low order toxicity causing irritation of the stomach and intestines which results in nausea and vomiting

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects environment. Avoid any pollution of ground, surface or underground water.

Persistence and degradability

Not available.

Bio - accumulative potential

Not available.

Mobility in soil

Not available.

Other adverse effects

Not available.

13. DISPOSAL CONSIDERATION

Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

14. TRANSPORT INFORMATION

UN Number

1169

UN proper shipping name

Extracts, aromatic, liquid

Transport hazard class

3

Packing group

III

US DOT Shipping Description (Land)

1169

Proper shipping name

Extracts, aromatic, liquid

Class

3

Packaging group

III

IMO-IMDG Shipping Description (Sea)

1169

Proper shipping name

Extracts, aromatic, liquid

Class

3

Packaging group

III

IATA Shipping Description (Air)

1169

Proper shipping name

Extracts, aromatic, liquid

Class

3

Packaging group

15. REGULATORY INFORMATION

WHMIS Classification

B3 - Combustible Liquid

HMIS (USA)

Health Hazard – 1; Fire Hazard – 2; Reactivity – 0.

GHS Hazard Statements

See Section 2.

GHS Precautionary Statements

See Section 2.

16. OTHER INFORMATION

Revision date : April 21, 2022

Disclaimer & Caution

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