



LIBERTY NATURAL PRODUCTS, INC.

*The Source for the Finest
Pure and Natural Botanical Oils and Extracts*

libertynatural.com

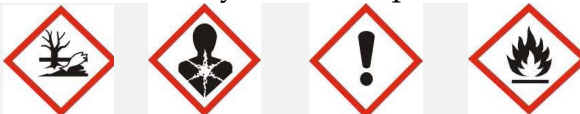
Section 1. Product and Company Identification

Product Name:	Dill Seed
Product Code:	602
Description:	Essential Oil of Dill Seed
Product Use:	Industrial
Manufacturer:	Liberty Natural Products, 20949 S Harris Rd, Oregon City, OR 97045 (800) 289-8427
Emergency Phone:	USA, Canada, Mexico: 1-800-535-5053 International: 1-352-323-3500

Section 2. Hazards Identification

Category:	H226 Flammable liquid and vapor.
Signal Word:	Warning
Ingestion:	N/A
Health Risks:	H304 May be fatal if swallowed and enters airways.
Eye Contact:	N/A
Skin Contact:	H315 Causes skin irritation. H317 May cause an allergic skin reaction.
Environmental:	H410 Very Toxic to aquatic life with long lasting effects.

Pictograms:



PRECAUTIONARY STATEMENT:

P210 Keep away from heat, sparks, open flames or hot surfaces. - No smoking.

P261 Avoid breathing dust, fume, gas, mist, vapors, spray.

P264 Wash parts in contact thoroughly after handling.

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.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment.

P331 Do NOT induce vomiting.

P332+P313 If skin irritation occurs: Get medical advice.

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P333+P313 If skin irritation or rash occurs: Get medical advice.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use CO2 foam, dry chemical for extinction.
P391 Collect spillage.

Section 3. Composition and Information on Ingredients

Chemical Name:	<i>Anethum graveolens</i>	
Physical State:	Liquid.	
CAS#:	8006-75-5	
Impurities:	None.	
Trade Secret Claim:	None.	
Ingredients:	Carvone: 20 – 50%	CAS#: 2244-16-8
	Limonene: 20 – 32%	CAS#: 5989-27-5
	Alpha Phellandrene: 17 – 32%	CAS#: 99-83-2

Section 4. First Aid Measures

Eyes:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Skin Contact:	Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. Remove contaminated cloths.
Inhalation:	Supply fresh air. In case of unconsciousness place patient stably in side position for transportation.
Ingestion in excess:	Drink copious amounts of water and provide fresh air. Immediately call a doctor.
Emergency Care:	Contact local emergency provider. For non-emergency, contact primary care provider.
PPE:	Gloves, lab coat or uniform, safety glasses, eyewash, safety shower.

Section 5. Fire-Fighting Measures

Flammability:	Flammable.	
Extinguishing Media:	SUITABLE:	CO2, sand, extinguishing powder
	NON SUITABLE:	Water.
Special Fire-Fighting Procedure:	None	
Unusual Fire and Explosion Hazards:	Essential and vegetable oils have the potential to self-heat and contribute to spontaneous combustion when present on fabrics. Caution should be exercised in the storage and launder of fabrics exposed to oils.	
PPE and Precautions for Firefighters:	Protect skin and eyes	

Section 6. Accidental Release Measures

Personal Precautions:	Follow company emergency procedures. Wear protective equipment and keep unprotected persons away. Keep away from ignition sources. Ensure area is well ventilated and avoid contact with eyes and mucous.
Environmental Precautions:	Do not dispose in sewer or in any natural environment.
Containment:	Absorb with clay, sand, or other non-combustible material.

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Clean Up: Prevent entry into waterways, sewers, and confined areas. Disposal must be made according to official regulations. Recover in a tightly sealed container. Wash with plenty of water after complete elimination of the product.

Section 7. Handling and Storage

Handling Precautions: Ensure good ventilation/exhaustion at the workplace. Keep container closed after using.

Storage Precautions: Keep away from humidity. Store in intact tightly sealed container in dry cool temperatures away from direct sunlight.

Other: See Section 8

Section 8. Exposure Controls/Personal Protection

Engineering Controls: Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes.

Respiratory Protection: Assure a good ventilation of work place. Use suitable respiratory protective device in case of insufficient ventilation.

Hand Protection: Plastic or synthetic rubber impermeable gloves

Eye Protection: Goggles give complete protection to eyes. Keep Eyewash bottle with clean water handy.

Skin and Body Protection: Clothes for chemical protection to avoid contact.

Ingestion: Do not eat, drink and smoke while using.

Industrial Hygiene: Follow your company policy.

OSHA Permissible Exposure Limits (PELs): N/A

ACGIH Threshold Limit Values: N/A

Section 9. Physical and Chemical Properties

Appearance: Versatile transparent liquid light yellow to yellow

Upper/Lower Flammability: N/A

Odor: Typical of dill weed oil

Vapor Pressure: N/A

Odor Threshold: N/A

Vapor Density: N/A

pH: N/A

Relative Density: 0.872 - 0.900 at 20°C

Melting Point: N/A

Freezing Point: N/A

Solubility: Insoluble in water

Initial Boiling Point and Boiling Range: N/A

Flash Point: 125.6°F / 52°C

Evaporation Rate: N/A

Flammability Category: N/A

Partition Coefficient: N/A

Auto-ignition Temperature: N/A

Decomposition Temperature: N/A

Viscosity: N/A

Specific Gravity: N/A

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Section 10. Stability and Reactivity

Stability:	Stable under normal circumstances. Avoid heat and ignition sources.
Avoid:	Excessive heat.
Incompatibility:	Undetermined
Hazardous Byproducts:	None in normal conditions
Other:	None

Section 11. Toxicological Information

Toxicological and Health Effects:	Aspiration hazard
Likely Routes of Exposure:	Eyes, nose, mouth, skin.
Signs and Symptoms of Exposure:	SKIN CONTACT: Can induce irritations. EYE CONTACT: Serious eye damage/eye irritation INHALATION: No specific hazard in normal use.
LD50 median lethal dose:	(oral, rat) 4,040 mg/kg (dermal, rabbit) >5,000mg/kg
Listed NTP Carcinogen:	N/A
INGESTION:	N/A

Section 12. Ecological Information

TOXICITY:	Adopt good working practices, so that the product is not released into the environment.
PERSISTENCE / DEGRADABILITY:	No information available.
BIOACCUMULATION POTENTIAL:	No information available.
RESULTS OF PBT AND vPvB ASSESSMENT:	No information available.
MOBILITY IN SOIL:	Do not allow product to reach ground water, water course or sewage system.
OTHER ADVERSE EFFECTS:	RSO/S3 Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment. Fish (P.Promelas): LCSO 33mg/l- 96h Daphnia magna: ECSO 69.6 mg/I - 48h

Section 13. Disposal Considerations

Disposal Containers:	To comply with the regulations and prefectural orders in use. Throwing out forbidden. Packaging must be well emptied.
Waste Disposal:	N/A
Special Considerations:	Must be specially treated adhering to official regulations.

Section 14. Transport Information

UN Number:	UN 1197
UN Shipping Name:	Extracts, liquid for flavour or aroma
Transport Hazard Class:	3
Packing Group Number:	III
Stowage and Handling:	N/A

Section 15. Regulatory Information

Product Regulations:	N/A
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Section 16. Other Information

Disclaimer:

This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.

<u>Revision Date</u>	<u>Revision made</u>	<u>Prepared by</u>
3/20/2024	Formatting changes.	SDR

End of SDS

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