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LIBERTY NATURAL PRODUCTS, INC.

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

Section 1. Product and Company Identification

Product Name:	Organic Ajwain
Product Code:	281
Description:	Essential Oil of Ajwain
Product Use:	Cosmetic and Manufacturing
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
Signal Word:	Warning
Ingestion:	H302 Harmful if swallowed
Health Risks:	N/A
Eye Contact:	H320 Causes eye irritation
Skin Contact:	H315 Causes skin irritation
Environmental:	N/A

Pictograms:



PRECAUTIONARY STATEMENT:

- P210 Keep away from heat, sparks, open flames or hot surfaces. – No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical, ventilating, lighting, communication, equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust, fume, gas, mist, vapors, spray.
- 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.
- P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
- P321 Specific treatment.

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P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice.
P333+P313 If skin irritation or rash occurs: Get medical advice.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use CO2 foam, dry chemical for extinction.
P391 Collect spillage.
P403+P235 Store in well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents and/or container in accordance with local, regional, national and/or international regulation.

Section 3. Composition and Information on Ingredients

Chemical Name: *Trachyspermum copticum*

Physical State: Liquid.

CAS #: 8001-99-8

Impurities: None.

Trade Secret Claim: None.

Section 4. First Aid Measures

Eyes: Rinse eyes immediately with running water at low pressure. Consult an ophthalmologist.

Skin Contact: Take off immediately all contaminated clothing. Wash skin thoroughly with soap and warm water for several minutes. Get medical attention if irritation develops and persists.

Inhalation: Supply fresh air and contact a doctor. In case of unconsciousness, place patient stably in side position for transportation.

Ingestion in excess: Call a physician or poison control center 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.

Emergency Care: Contact local emergency provider. For non-emergency, contact primary care provider. Most important symptoms and effects, both acute and delayed. May produce an allergic reaction. Treat according to symptoms.

PPE: Gloves, lab coat or uniform, safety glasses, eyewash, safety shower.

Section 5. Fire-Fighting Measures

Flammability: Flammable.

Extinguishing Media: SUITABLE: Fog, CO₂, dry chemical, or alcohol resistant foam
NON SUITABLE: Water.

Special Fire-Fighting Procedure: 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.

Unusual Fire and Explosion Hazards: Vapor may travel to source of ignition and flash back. Vapor may settle low or in confined spaces. May produce a floating

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fire hazard. Static ignition hazard can result from handling and use. 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. Carbon oxides are produced when burning.

PPE and Precautions for Firefighters: Static charges generated by emptying package in or near flammable vapor may cause flash fire. Use water spray to cool unopened containers. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

Section 6. Accidental Release Measures

Personal Precautions: Avoid all contact with eyes and mucous membranes by wearing goggles, protective clothing, vapor respirator, boots, gloves, and or self-contained breathing apparatus.

Environmental Precautions: Do not dispose in sewer or in any natural environment.

Containment: Absorb with clay, sand, or other non-combustible material. Prevent entry into waterways, sewers, and confined areas.

Clean Up: Once contained wash with plenty of soap and water after complete elimination of the product. Small spills can be flushed with large amounts of water. Large spills- eliminate ignition sources; ground equipment; use vapor suppression such as foam; use non-sparking tools and non-combustible matter to absorb product and transfer to grounded containers.

Section 7. Handling and Storage

Handling Precautions: Avoid contact with eyes and mucous. 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 vapor. Avoid contact with eyes, skin, and clothing. Smoking, eating and drinking should be prohibited in application area. Avoid prolonged exposure. Wash thoroughly after handling. Handle containers with care. Open slowly in order to control possible pressure release.

Storage Precautions: Keep container closed. Store in a cool, well-ventilated area. Protect from light and potential sources of ignition. Store separated from foodstuff or animal food.

Other: See Section 8

Section 8. Exposure Controls/Personal Protection

Engineering Controls: Exhaust ventilation or other engineering controls to keep vapor concentration below their respective threshold limit value. Ensure eyewash stations and safety showers are proximal to the work station.

Respiratory Protection: Assure a good ventilation of work place.

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Hand Protection:	Plastic or synthetic rubber impermeable gloves.
Eye Protection:	Goggles giving complete protection to eyes. Eyewash bottle with clean water.
Skin and Body Protection:	Clothes for chemical protection to avoid contact.
Ingestion:	Do not eat, drink and smoke while using
Industrial Hygiene:	Provide ventilation of the work place to reduce concentrations of the vapor and product.
OSHA Permissible Exposure Limits (PELs):	N/A
ACGIH Threshold Limit Values:	N/A

Section 9. Physical and Chemical Properties

Appearance:	Light yellow liquid
Upper/Lower Flammability:	N/A
Odor:	Warm spicy pungent
Vapor Pressure:	N/A
Odor Threshold:	N/A
Vapor Density:	N/A
pH:	N/A
Relative Density:	N/A
Melting Point:	N/A
Freezing Point:	N/A
Solubility:	Insoluble
Initial Boiling Point and Boiling Range:	N/A
Flash Point:	134.6°F / 57°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:	0.875 to 0.930 at 20 °C

Section 10. Stability and Reactivity

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

Section 11. Toxicological Information

Toxicological and Health Effects:	Nontoxic at established levels.
Likely Routes of Exposure:	Eyes, nose, mouth, skin.
Signs and Symptoms of Exposure:	See Section 2. Hazards Identification.
LD50 (median lethal dose):	Not available
Listed NTP Carcinogen:	Not classified as a human carcinogen.
INGESTION:	N/A

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Section 12. Ecological Information

TOXICITY:	See Section 2
PERSISTENCE / DEGRADABILITY:	No information available.
BIOACCUMULATION POTENTIAL:	No information available.
RESULTS OF PBT AND vPvB ASSESSMENT:	No information available.
MOBILITY IN SOIL:	No information available.
OTHER ADVERSE EFFECTS:	Not known.

Section 13. Disposal Considerations

Disposal Containers:	Vapors may collect in empty containers. Rinse or evaporate thoroughly. Dispose of in accordance with current applicable laws and regulations.
Waste Disposal:	Place material and/or absorbent into sealed containers and dispose of in accordance with current applicable laws and regulations. Refer to local authority for advice.
Special Considerations:	Dispose of spill containment material in accordance with Federal, State, and local laws.

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

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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.

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