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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:	Tarragon (Estragon)
Product Code:	910
Description:	Essential Oil of Tarragon
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:	H302 Harmful if swallowed. H332 Harmful if inhaled.
Health Risks:	N/A
Eye Contact:	N/A
Skin Contact:	H312 Harmful in contact with skin.
Environmental:	H411 Toxic to aquatic life with long lasting effects.
Pictograms:	

PRECAUTIONARY STATEMENT:

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

P264 Wash parts in contact thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection, face protection.

P301 + 312 + 330 IF SWALLOWED: Rinse mouth, only if conscious. Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + 352 + 312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell.

P363 Wash contaminated clothing before reuse.

P304 + 340 + 312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

P391 Collect spillage.

P501 Dispose of contents/containers in accordance with local/regional/national regulations.

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Section 3. Composition and Information on Ingredients

Chemical Name:	<i>Artemisia dracunculus</i>
Physical State:	Liquid.
CAS#:	90131-45-6
Impurities:	None.
Trade Secret Claim:	None.

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.
Inhalation:	Supply fresh air and to be sure call for a doctor.
Ingestion in excess:	Drink copious amounts of water and provide fresh air. If symptoms persist consult 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: CO ₂ , 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:	Firemen must wear self-contained breathing apparatus.

Section 6. Accidental Release Measures

Personal Precautions:	Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources.
Environmental Precautions:	Prevent seepage into sewage system, work pits and cellars. Ensure adequate ventilation. Do not allow to enter sewers/surface or ground water.
Containment:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Clean Up:	Dispose contaminated material as waste as hazardous water. To clean the floor and all objects contaminate by this material, use aqueous cleansing agents.

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Section 7. Handling and Storage

Handling Precautions:	Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Handle with care. Keep away from sources of ignition – No smoking. Take measures to prevent the buildup of electrostatic charge.
Storage Precautions:	Store in cool, dry place in tightly closed receptacles. Keep out of reach of children. Keep container tightly closed. Keep away from food, drink and animal feed.
Other:	See Section 8

Section 8. Exposure Controls/Personal Protection

Engineering Controls:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday
Respiratory Protection:	Assure a good ventilation of work place. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. In case of insufficient ventilation, wear suitable respiratory equipment.
Hand Protection:	The glove material has to be impermeable.
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:	Colorless to pale yellow-green
Upper/Lower Flammability:	N/A
Odor:	Sweet, herbaceous, slightly green-spicy
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:	158°F / 70°C

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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

Section 10. Stability and Reactivity

Stability:	Stable under normal circumstances. Avoid heat and ignition sources.
Avoid:	Heat, flames, sparks.
Incompatibility:	Strong bases, strong acids, strong oxidizing agents.
Hazardous Byproducts:	Carbon monoxide and carbon dioxide.
Other:	None

Section 11. Toxicological Information

Toxicological and Health Effects:	N/A
Likely Routes of Exposure:	Eyes, nose, mouth, skin.
Signs and Symptoms of Exposure:	See Section 2. Hazards Identification.
LD50 (median lethal dose):	(oral, rat) 709 mg/kg (dermal, rabbit) 709 mg/kg
Listed NTP Carcinogen:	No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
INGESTION:	N/A

Section 12. Ecological Information

TOXICITY:	See Section 2
PERSISTENCE / DEGRADABILITY:	No information available.
BIOACCUMULATION POTENTIAL:	No information available
RESULTS OF PBT AND vPvB ASSESSMENT:	PBT/vPvB assessment not available as chemical. Safety assessment not required/not conducted.
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. Use appropriate container to avoid environmental contamination.
Waste Disposal:	This material and its container must be disposed of as hazardous waste. Do not empty into drains. This material must be disposed of in a safe way. Dispose of this material

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and its container to hazardous or special waste collection point. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Special Considerations: Dispose of spill containment material in accordance with Federal, State, and local laws.

Section 14. Transport Information

UN Number: 3082
UN Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
Transport Hazard Class: 9
Packing Group Number: 111
Stowage and Handling: N/A

Section 15. Regulatory Information

Product Regulations: N/A

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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