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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:	Clove Leaf Crude
Product Code:	1159
Description:	Essential Oil of Clove Leaf
Product Use:	Industrial
Manufacturer:	Liberty Natural Products, 20949 S Harris Rd, Oregon City, OR 97045 (800) 289-8427
Emergency Phone:	Liberty Natural Products: (800) 289-8427

Section 2. Hazards Identification

Category:	Not a hazardous substance or mixture
Signal Word:	None
Ingestion:	N/A
Health Risks:	N/A
Eye Contact:	N/A
Skin Contact:	N/A
Environmental:	N/A
Pictograms:	N/A

PRECAUTIONARY STATEMENT:

P301 + 310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + 361 + 353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Section 3. Composition and Information on Ingredients

Chemical Name:	<i>Eugenia Caryophyllata</i>
Physical State:	Liquid.
CAS #:	8000-34-8
Impurities:	None.
Trade Secret Claim:	None.

Section 4. First Aid Measures

Eyes:	Remove contact lenses if worn. Flush immediately with plenty of water.
Skin Contact:	Wash off with soap and plenty of water.
Inhalation:	Remove to fresh air. Seek medical attention if necessary.

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Ingestion in excess:	Seek medical attention or contact local poison control center immediately.
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 , foam, dry chemical. NON SUITABLE: Water.
Special Fire-Fighting Procedure:	Wear positive pressure, self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Wear positive pressure, self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Remove containers from fire area. Spray extinguishing media directly into the base of the flames. Water is unsuitable for use on burning materials but may be used to cool containers exposed to heat.
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:	Possibility of development of hazardous gases or vapors in event of fire. Following may develop: CO and CO ₂ .

Section 6. Accidental Release Measures

Personal Precautions:	Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
Environmental Precautions:	Do not let product enter drains. Notify authorities if large amounts of product enters sewer.
Containment:	Remove any source of flame or sparks. Ventilate area. Prevent liquid form entering the sewers. Recover spilled material with pump or absorb onto an inert substrate.
Clean Up:	Sweep up absorbing material.

Section 7. Handling and Storage

Handling Precautions:	Keep away from sources of ignition - No smoking. Wash hands before breaks and after work. Keep away from food,
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Storage Precautions:	drink and animals. Wear safety glasses and protective gloves. Normal measures for preventive fire protection. Store in a cool, dry, dark location, in a sealed container in a well-ventilated area away from sources of ignition.
Other:	See Section 8

Section 8. Exposure Controls/Personal Protection

Engineering Controls:	General industrial hygiene practice.
Respiratory Protection:	Use adequate ventilation or approved respiratory devices if vapor concentration is high due to heat. Handle in well ventilated areas. Ventilation meeting ACGIH Standards should be employed.
Hand Protection:	Plastic or synthetic rubber impermeable gloves. NBR (Nitrile rubber)
Eye Protection:	Chemical splash goggles or face shield should be worn. Eyewash bottle with clean water should be near work station.
Skin and Body Protection:	Clothes for chemical protection to avoid contact. Lab coats, boots and protective gloves should be worn.
Ingestion:	Do not eat, drink and smoke while using
Industrial Hygiene:	Use good personal hygiene practices. Limit exposure to product whenever possible. Wash contaminated clothing or shoes before each use.
OSHA Permissible Exposure Limits (PELs):	N/A
ACGIH Threshold Limit Values:	N/A

Section 9. Physical and Chemical Properties

Appearance:	Clear yellow to brown liquid
Upper/Lower Flammability:	N/A
Odor:	Characteristic of clove
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:	Slightly soluble
Initial Boiling Point and Boiling Range:	N/A
Flash Point:	200°F / 93.3°C
Evaporation Rate:	N/A
Flammability Category:	N/A
Partition Coefficient:	N/A
Auto-ignition Temperature:	N/A

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Decomposition Temperature:	N/A
Viscosity:	N/A
Specific Gravity:	1.035 to 1.057 g/cm ³ at 25°C

Section 10. Stability and Reactivity

Stability:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Avoid:	Keep away from sources of ignition, flame and heat. Avoid hot work and sources of ignition on or near empty containers.
Incompatibility:	Avoid strong acids, strong bases and all oxidizing agents.
Hazardous Byproducts:	N/A
Other:	No dangerous reaction known under conditions of normal use.

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:	Irritating to eyes, respiratory system, and skin. May cause sensitization by inhalation and skin contact. May cause lung damage if swallowed.
LD50 (median lethal dose):	Not available.
Listed NTP Carcinogen:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC, ACGIH, NTP or OSHA.
INGESTION:	May cause lung damage if swallowed.

Section 12. Ecological Information

TOXICITY:	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment
PERSISTENCE / DEGRADABILITY:	No information available.
BIOACCUMULATION POTENTIAL:	May cause long-term adverse effects in the aquatic environment 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:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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Section 13. Disposal Considerations

Disposal Containers:	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Waste Disposal:	Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations
Special Considerations:	Dispose in accordance with all applicable regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Section 14. Transport Information

UN Number:	N/A
UN Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group Number:	N/A
Stowage and Handling:	N/A

Section 15. Regulatory Information

Product Regulations:	N/A
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Section 16. Other Information

Last Revised:	9/15/2022	Initial of Editor: SDR
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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.

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