



LIBERTY NATURAL PRODUCTS, INC.

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

libertynatural.com

Section 1. Product and Company Identification

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|-------------------------|--------------------------------------------------------------------------------------|
| Product Name: | Clove Leaf Redistilled 85% |
| Product Code: | 868 |
| Description: | Essential Oil of the 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: | H226 Flammable liquid and vapor. |
| Signal Word: | Warning |
| Ingestion: | H304 May be fatal if swallowed and enters airways. |
| Health Risks: | N/A |
| Eye Contact: | H319 Causes eye irritation. |
| Skin Contact: | H315 Causes skin irritation. H317 May cause an allergic skin reaction. |
| Environmental: | H402 Harmful to aquatic organisms. |

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.
- 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 + P351 IF ON SKIN: Wash with plenty of soap and water.

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P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.

P312 Call a POISON CENTER or doctor if you feel unwell.

P331 Do NOT induce vomiting.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use CO₂ foam or dry chemicals for extinguishing.

P403 + P235 Store in well ventilated place. Keep cool.

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: *Eugenia Caryophyllata*

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. Consult an ophthalmologist.

Skin Contact: Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water for at least 15 minutes. Get medical attention if irritation develops and persists.

Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

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.

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

Section 5. Fire-Fighting Measures

Flammability: Flammable.

Extinguishing Media: SUITABLE: CO₂, 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. Remove containers from fire area. Spray extinguishing media directly into the base of the flames. Water is Unsuitable for use on

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| | 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

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| Personal Precautions: | Avoid breathing vapors, mist or gas, Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8. |
| Environmental Precautions: | Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it. Notify authorities if large amounts of product enters sewer. |
| Containment: | Remove any source of flame or sparks. Ventilate area. Absorb with clay, sand, or other non-combustible material. Notify authorities if large amounts of product enters sewer, prevent entry into waterways, sewers, and confined areas. |
| Clean Up: | Recover spilled material with pump or absorb onto an inert, absorbent substrate and sweep up. |

Section 7. Handling and Storage

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| Handling Precautions: | Keep away from sources of ignition - No smoking. Wash hands before breaks and after work. Keep away from food, drink and animals. |
| Storage Precautions: | Store in sealed container, keep container closed after using. Store in a cool dry, dark location away from any ignition source in a well ventilated area. |
| Other: | See Section 8 |

Section 8. Exposure Controls/Personal Protection

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| Engineering Controls: | General industrial hygiene practice. |
| Respiratory Protection: | Use adequate ventilation or approved respiratory devices if vapor concentration is high due to heat. |
| 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. |

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| | |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 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

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|-------------------------------------------------|----------------------------------|
| Appearance: | Clear yellow to brown liquid oil |
| Upper/Lower Flammability: | N/A |
| Odor: | Characteristic, warm, 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: | 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 |
| Decomposition Temperature: | N/A |
| Viscosity: | N/A |
| Specific Gravity: | 1.025 to 1.049 g/cm ³ |

Section 10. Stability and Reactivity

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| 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

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|------------------------------------------|----------------------------------|
| Toxicological and Health Effects: | Non toxic at established levels. |
| Likely Routes of Exposure: | Eyes, nose, mouth, skin. |
| Signs and Symptoms of Exposure: | N/A |
| LD50 (median lethal dose): | Not available |

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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 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.

Section 13. Disposal Considerations

Disposal Containers: It is a dangerous waste; only packaging which is approved (e.g. acc. to ADR) may be used.

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

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Section 15. Regulatory Information

Product Regulations: N/A

Section 16. Other Information

Last Revised: 1/12/2021

Initial of Editor: SAM

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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