



# LIBERTY NATURAL PRODUCTS, INC.

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

## Section 1. Product and Company Identification

|                         |  |
|-------------------------|--|
| <b>Product Name:</b>    | Eugenol 99.5% Essential Oil  |
| <b>Product Code:</b>    | 867  |
| <b>Description:</b>     | Essential Oil of Eugenol   |
| <b>Product Use:</b>     | Industrial   |
| <b>Manufacturer:</b>    | Liberty Natural Products, 20949 South Harris Rd, Oregon City, OR 97045 |
| <b>Emergency Phone:</b> | Liberty Natural Products: (800) 289-8427                               |

## Section 2. Hazards Identification

|                       |  |
|-----------------------|--|
| <b>Category:</b>      | Non Flammable                            |
| <b>Signal Word:</b>   | Warning                                  |
| <b>Ingestion:</b>     | N/A                                      |
| <b>Health Risks:</b>  | N/A                                      |
| <b>Eye Contact:</b>   | H319 Causes serious eye irritation       |
| <b>Skin Contact:</b>  | H317 May cause an allergic skin reaction |
| <b>Environmental:</b> | N/A                                      |
| <b>Pictograms:</b>    | None                                     |

### PRECAUTIONARY STATEMENT:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P305 + 338 + 351 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if necessary and easy to do – continue rinsing.  
P333 + 313 If skin irritation or a rash occurs: Get medical advice/attention  
P337 + 313 If eye irritation persists: Get medical advice/attention  
P501 Dispose of contents/container to an approved waste disposal plant

## Section 3. Composition and Information on Ingredients

|                            |   |
|----------------------------|---|
| <b>Chemical Name:</b>      | Eugenol 4-Allyl-2-methoxyphenol 2-Methoxy-4-(2-propenyl)-phenol Hydroxy-1-methoxy-2-allyl-4-benzene |
| <b>Physical State:</b>     | Liquid.   |
| <b>CAS #:</b>              | 97-53-0   |
| <b>Impurities:</b>         | None.   |
| <b>Trade Secret Claim:</b> | None.   |

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#### Section 4. First Aid Measures

|                             |  |
|-----------------------------|--|
| <b>Eyes:</b>                | Remove contact lenses if worn. Flush immediately with plenty of water. Get medical attention if irritation develops and persists.  |
| <b>Skin Contact:</b>        | Take off contaminated clothing immediately. Wash off with soap and plenty of water. Get medical attention if irritation develops.  |
| <b>Inhalation:</b>          | Remove to fresh air. Seek medical attention if necessary.  |
| <b>Ingestion in excess:</b> | If swallowed, rinse mouth with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Seek medical attention or contact local poison control center immediately. |
| <b>Emergency Care:</b>      | Contact local emergency provider. For non-emergency, contact primary care provider.  |
| <b>PPE:</b>                 | Gloves, lab coat or uniform, safety glasses, eyewash, safety shower.   |

#### Section 5. Fire-Fighting Measures

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| <b>Flammability:</b>                         | Flammable.   |
| <b>Extinguishing Media:</b>                  | SUITABLE: CO <sub>2</sub> , dry chemical, or alcohol resistant foam<br>NON SUITABLE: Water.  |
| <b>Special Fire-Fighting Procedure:</b>      | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighter's 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. Cool containers exposed to heat. |
| <b>Unusual Fire and Explosion Hazards:</b>   | Vapor may travel to source of ignition and flash back. Vapor may settle low or in confined spaces. May produce a floating 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.      |
| <b>PPE and Precautions for Firefighters:</b> | Static charges generated by emptying package in or near flammable vapor may cause flash fire. Use water spray to cool unopened containers.   |

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## Section 6. Accidental Release Measures

|                                   |   |
|-----------------------------------|---|
| <b>Personal Precautions:</b>      | Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. |
| <b>Environmental Precautions:</b> | Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.  |
| <b>Containment:</b>               | Remove any source of flame or sparks. Ventilate area. Absorb with clay, sand, or other non-combustible material. Prevent entry into waterways, sewers, and confined areas.  |
| <b>Clean Up:</b>                  | Recover spilled material with pump or absorb onto an inert, absorbent substrate and sweep up.   |

## Section 7. Handling and Storage

|                              |  |
|------------------------------|--|
| <b>Handling Precautions:</b> | Avoid contact with eyes and mucous. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. 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. Avoid prolonged exposure. Wash thoroughly after handling. S |
| <b>Storage Precautions:</b>  | Store in a cool, well-ventilated area away from sources of ignition.   |
| <b>Other:</b>                | See Section 8  |

## Section 8. Exposure Controls/Personal Protection

|                                  |   |
|----------------------------------|---|
| <b>Engineering Controls:</b>     | 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. Use explosion-proof ventilation equipment to stay below exposure limits. |
| <b>Respiratory Protection:</b>   | Use adequate ventilation or NIOSH-approved respiratory devices if vapor concentration is high due to heat.  |
| <b>Hand Protection:</b>          | Plastic or synthetic rubber impermeable gloves. Chemical resistant gloves.  |
| <b>Eye Protection:</b>           | Chemical splash goggles or face shield should be worn.  |
| <b>Skin and Body Protection:</b> | Lab coats, boots and protective gloves should be worn.  |
| <b>Ingestion:</b>                | Do not eat, drink and smoke while using   |

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**Industrial Hygiene:** When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

**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:** Spicy, warm and sweet  
**Vapor Pressure:** < 0.1 hPa @ 25 °C  
**Odor Threshold:** N/A  
**Vapor Density:** N/A  
**pH:** N/A  
**Relative Density:** 1.066 g/cm<sup>3</sup>  
**Melting Point:** N/A  
**Freezing Point:** N/A  
**Solubility:** Slightly soluble  
**Initial Boiling Point and Boiling Range:** 253 °C/487 °F at 1013 hPa  
**Flash Point:** >100 °C/212 °F  
**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:** 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:** None in normal conditions  
**Other:** No hazardous decomposition products if stored and handled as indicated.

### Section 11. Toxicological Information

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|  |   |
|--|---|
| <b>Toxicological and Health Effects:</b> | Nontoxic at established levels.   |
| <b>Likely Routes of Exposure:</b>        | Eyes, nose, mouth, skin.  |
| <b>Signs and Symptoms of Exposure:</b>   | Skin irritation. May cause redness and pain. May cause an allergic skin reaction, dermatitis or rash.   |
| <b>LD50 (median lethal dose):</b>        | N/A   |
| <b>Listed NTP Carcinogen:</b>            | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP or OSHA. |
| <b>INGESTION:</b>                        | Expected to be a low ingestion hazard.  |

## Section 12. Ecological Information

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|--|--|
| <b>TOXICITY:</b>                           | 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. |
| <b>PERSISTENCE / DEGRADABILITY:</b>        | No data is available on the degradability of this product.   |
| <b>BIOACCUMULATION POTENTIAL:</b>          | No information available.  |
| <b>RESULTS OF PBT AND vPvB ASSESSMENT:</b> | PBT/vPvB assessment not available as chemical safety assessment not required/not conducted   |
| <b>MOBILITY IN SOIL:</b>                   | No information available.  |
| <b>OTHER ADVERSE EFFECTS:</b>              | 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

|                                |   |
|--------------------------------|---|
| <b>Disposal Containers:</b>    | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.  |
| <b>Waste Disposal:</b>         | 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. |
| <b>Special Considerations:</b> | Dispose of spill containment material in accordance with Federal, State, and local laws.  |

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#### 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

#### Section 16. Other Information

Last Revised: 7/11/19 Initial of Author: SRS

*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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