



LIBERTY NATURAL PRODUCTS, INC.

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

libertynatural.com

Section 1. Product and Company Identification

Product Name:	Clove Bud
Product Code:	1224
Description:	Essential Oil of Clove Bud
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:	None
PRECAUTIONARY STATEMENT:	N/A

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.
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.

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

Section 5. Fire-Fighting Measures

Flammability: Flammable.

Extinguishing Media: SUITABLE: 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 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.

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 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.

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.

Section 6. Accidental Release Measures

Personal Precautions: 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.

Environmental Precautions: 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.

Containment: 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.

Clean Up: Recover spilled material with pump or absorb onto an inert, absorbent substrate and sweep up.

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Section 7. Handling and Storage

Handling Precautions:	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
Storage Precautions:	Store in a cool, well-ventilated area away from sources of ignition.
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. Use explosion-proof ventilation equipment to stay below exposure limits.
Respiratory Protection:	Use adequate ventilation or NIOSH-approved respiratory devices if vapor concentration is high due to heat.
Hand Protection:	Plastic or synthetic rubber impermeable gloves. Chemical resistant gloves.
Eye Protection:	Chemical splash goggles or face shield should be worn.
Skin and Body Protection:	Lab coats, boots and protective gloves should be worn.
Ingestion:	Do not eat, drink and smoke while using
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:	Clear yellow to brown liquid
Upper/Lower Flammability:	N/A
Odor:	Characteristic, spicy, warm and sweet
Vapor Pressure:	N/A
Odor Threshold:	N/A
Vapor Density:	N/A
pH:	N/A

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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:	1.042 - 1.063 g/cm ³ at 25°C

Section 10. Stability and Reactivity

Stability:	Stable under normal circumstances. Avoid heat and ignition sources.
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

Toxicological and Health Effects:	Nontoxic at established levels.
Likely Routes of Exposure:	Eyes, nose, mouth, skin.
Signs and Symptoms of Exposure:	Skin irritation. May cause redness and pain. May cause an allergic skin reaction, dermatitis or rash.
LD50 (median lethal dose):	N/A
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 NTP or OSHA.
INGESTION:	Expected to be a low ingestion hazard.

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 data is available on the degradability of this product.
BIOACCUMULATION POTENTIAL:	No information available.

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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: 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.

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 of spill containment material in accordance with Federal, State, and local laws.

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

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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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