



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:	Rosemary, Cineole Type
Product Code:	975
Description:	Essential Oil of Rosemary
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:	Danger
Ingestion:	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airway.
Health Risks:	H371 May cause damage to organs.
Eye Contact:	H319 Causes eye irritation.
Skin Contact:	H315 Causes skin irritation. H317 May cause an allergic skin reaction.
Environmental:	H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

Pictograms:



PRECAUTIONARY STATEMENT:

- P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/light/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.

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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.
P330 Rinse mouth.
P331 Do NOT induce vomiting.
P391 Collect spillage.
P301 + 310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301 + 312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + 352 IF ON SKIN: Wash with plenty of soap and water.
P308 + 311 IF exposed or concerned: Call a POISON CENTER/doctor/physician.
P332 + 313 IF skin irritation occurs: Get medical advice/attention.
P333 + 313 IF skin irritation or a rash occurs: Get medical advice/attention.
P337 + 313 If eye irritation persists: Get medical advice/attention.
P362 + 364 Take off contaminated clothing and wash it before use.
P370 + 378 In case of fire: Use carbon-dioxide, powder, aqueous extinguishing media for extinction.
P303 + 361 + 353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + 351 + 338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P405 Store locked up.
P403 + 235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/containers in accordance with regulations on hazardous waste of packaging and packaging waste respectively.

Section 3. Composition and Information on Ingredients

Chemical Name:	<i>Rosmarinus officinalis</i>
Physical State:	Liquid.
CAS #:	84604-14-8
Impurities:	None.
Trade Secret Claim:	None.

Section 4. First Aid Measures

Eyes:	Hold the eyes open and rinse with preferably lukewarm water for at least 10 minutes. Immediately contact an ophthalmologist.
Skin Contact:	Wash immediately with plenty of soap and water. Apply protective bandage with sterile gauze. Call a doctor.
Inhalation:	Bring accident victims out into the fresh air. Immediately call a doctor.
Ingestion in excess:	If accidentally swallowed, obtain immediate medical attention. Rinse mouth. Do NOT induce vomiting – danger of aspiration.

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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: Fog, CO ₂ , dry chemical, or aqueous extinguishing media. NON SUITABLE: Water.
Special Fire-Fighting Procedure:	Carbon oxides are produced when burning. 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 undamaged containers or piping with water. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.
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:	Ensure adequate ventilation/exhaust extraction. Wear personal protective equipment. Avoid contact with skin and inhalation of it vapors or smoke.
Environmental Precautions:	Do not discharge directly into drains or soil. Keep away from surface and ground water. Do not flush into surface water or sanitary sewer system.
Containment:	Terminate and take up spills with absorbent material (sand, kieselguhr, universal binder, etc.) or with pumping.

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Containers in which spilt substance has been collected must be adequately labeled.

Clean Up: Dispose of absorbed material in accordance with the regulations preferable with burning.

Section 7. Handling and Storage

Handling Precautions: Avoid contact with eyes and mucous membranes. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of aerosols. Smoking, eating and drinking should be prohibited in application area. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

Storage Precautions: Keep container tightly closed, protected from light and potential sources of ignition. Store separated from foodstuffs or animal food. Store in a cool and well-ventilated place. Recommended storage conditions 18-25°C (65 - 77°C)

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: In case of any possible exposure, wear gasmask with fresh air supply.

Hand Protection: Chemical resistant gloves.

Eye Protection: Safety glasses with side protection shield.

Skin and Body Protection: Closed working suit.

Ingestion: Do not eat, drink and smoke while handling this product.

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: Colorless to pale yellow liquid

Upper/Lower Flammability: N/A

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Odor:	Fresh, spicy, herbal, camphoraceous
Vapor Pressure:	87-633 Pa
Odor Threshold:	N/A
Vapor Density:	N/A
pH:	N/A
Relative Density:	N/A
Melting Point:	-4°F / -20°C
Freezing Point:	N/A
Solubility:	1.95-3.50 mg/L (20.1 – 25.0°C, pH 7.6-7.9)
Initial Boiling Point and Boiling Range:	316.4°F / 158°C
Flash Point:	116.6°F / 47°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:	N/A

Section 10. Stability and Reactivity

Stability:	Stable under normal circumstances. Avoid heat and ignition sources.
Avoid:	Avoid direct sunlight, excessive heat, sparks or open flame.
Incompatibility:	Oxidizing mineral acids, strong reducing agents, strong 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. The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea, and vomiting.
LD50 (median lethal dose):	5 ml/kg (rat, oral)
Listed NTP Carcinogen:	N/A
INGESTION:	Can be noxious

Section 12. Ecological Information

TOXICITY:	Short-term toxicity to fish: LL50 (4 day) 3.4 – 3.9 mg/L
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Short-term toxicity to aquatic invertebrates:

EL50 (48h) 2.6 – 4.7 mg/L

Toxicity to aquatic algae and cyanobacteria:

EL50 (72h) 4.4 – 5.6 mg/L

PERSISTENCE / DEGRADABILITY: No data is available on the degradability of this product.

BIOACCUMULATION POTENTIAL: No information available.

RESULTS OF PBT AND vPvB

ASSESSMENT: No information available.

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: UN1197

UN Shipping Name: Extracts, liquid for flavour or aroma

Transport Hazard Class: 3

Packing Group Number: III

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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