



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:	Calamus Root
Product Code:	292
Description:	Essential Oil of Calamus Root
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:	H303 May be harmful if swallowed.
Health Risks:	N/A
Eye Contact:	H319 Causes serious eye damage.
Skin Contact:	H312 Harmful in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction
Environmental:	H401 Toxic to aquatic life H411 Toxic to aquatic life with long lasting effects.

Pictograms:



PRECAUTIONARY STATEMENT:

- P201 Obtain special instructions before use.
- P202 Toxic to aquatic life with long lasting effects. SAFETY DATA SHEET Version 1.0 Revision P261
- Avoid breathing dust, fume, gas, mist, vapors, spray.
- 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.
- P281 Use personal protective equipment as required.
- P302 + 352 IF ON SKIN: Wash with plenty of soap and water.
- P305 + 351 + 338 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332 + P313 If skin irritation occurs: Get medical advice.
- P333 + P313 If skin irritation or rash occurs: Get medical advice.
- P361 Remove immediately all contaminated clothing.

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P405 Collect spillage

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: *Acorus calamus*

Physical State: Liquid.

CAS#: 8015-79-0

Impurities: None.

Trade Secret Claim: None.

Section 4. First Aid Measures

Eyes: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Skin Contact: If skin irritation continues, consult a doctor. Immediately wash with water and soap and rinse thoroughly.

Inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

Ingestion in excess: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

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, sand, extinguishing powder
NON SUITABLE: Water.

Special Fire-Fighting Procedure: None

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: Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

Section 6. Accidental Release Measures

Personal Precautions: Protective equipment and emergency procedures, Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources.

Environmental Precautions: Do not dispose in sewer or in any natural environment.

Containment: Absorb with clay, sand, or other non-combustible material. Prevent entry into waterways, sewers, and confined areas.

Clean Up: Disposal must be made according to official regulations.

Section 7. Handling and Storage

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Handling Precautions:	Store in cool, dry place in tightly closed receptacles. Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Handle with care. Avoid jolting, friction and impact.
Storage Precautions:	Store in sealed container, Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Store receptacle in a well ventilated area.
Other:	See Section 8

Section 8. Exposure Controls/Personal Protection

Engineering Controls:	Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes. Handle in accordance with good industrial hygiene and safety procedures.
Respiratory Protection:	Assure a good ventilation of work place.
Hand Protection:	The glove material has to be impermeable.
Eye Protection:	Goggles giving complete protection to eyes. Eyewash bottle with clean water.
Skin and Body Protection:	Clothes for chemical protection to avoid contact.
Ingestion:	Do not eat, drink and smoke while using.
Industrial Hygiene:	Provide ventilation of the work place to reduce concentrations of the vapor and product.
OSHA Permissible Exposure Limits (PELs):	N/A
ACGIH Threshold Limit Values:	N/A

Section 9. Physical and Chemical Properties

Appearance:	Clear pale straw
Upper/Lower Flammability:	N/A
Odor:	Possesses floral herbaceous characteristics
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:	Insoluble
Initial Boiling Point and Boiling Range:	N/A
Flash Point:	185°F / 85°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

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Section 10. Stability and Reactivity

Stability:	Stable under normal circumstances. Avoid heat and ignition sources.
Avoid:	Avoid sparks, flame and other heat sources.
Incompatibility:	Strong oxidizing agents.
Hazardous Byproducts:	Carbon Oxides.
Other:	None

Section 11. Toxicological Information

Toxicological and Health Effects:	Can be noxious. Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.
Likely Routes of Exposure:	Eyes, nose, mouth, skin.
Signs and Symptoms of Exposure:	See Section 2. Hazards Identification.
LD50 (median lethal dose):	N/A
Listed NTP Carcinogen:	N/A
INGESTION:	N/A

Section 12. Ecological Information

TOXICITY:	Toxic to aquatic organisms, may cause long-term adverse effects environment. Avoid any pollution of ground, surface or underground water.
PERSISTENCE / DEGRADABILITY:	No information available.
BIOACCUMULATION POTENTIAL:	No information available.
RESULTS OF PBT AND vPvB ASSESSMENT:	No information available.
MOBILITY IN SOIL:	No information available.
OTHER ADVERSE EFFECTS:	Not known.

Section 13. Disposal Considerations

Disposal Containers:	Vapors may collect in empty containers. Rinse or evaporate thoroughly.
Waste Disposal:	Product is biodegradable.
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
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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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