



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	Milfoil (Yarrow)
Product Code:	931
Description:	Essential Oil of Yarrow (Milfoil)
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 airways. H332 Harmful if inhaled.
Health Risks:	H371 May cause damage to organs.
Eye Contact:	H319 Causes serious 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.
- P240 Ground/bond container & 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/vapor 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.
- P271 Use only outdoors or in a well-ventilated area.

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P272 Contaminated work clothing should be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P331 Do NOT induce vomiting.
P391 Collect spillage .
P301 + 310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + 352 IF ON SKIN: Wash with plenty of soap and water.
P304 + 340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308 + 311 IF exposed or concerned: Call a POISON CENTER/doctor/physician.
P333 + 313 If skin irritation or rash occurs: 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.
P405 Store locked up.
P403 + 235 Store in well ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Section 3. Composition and Information on Ingredients

Chemical Name:	<i>Achillea millefolium</i>
Physical State:	Liquid.
CAS #:	8022-07-9
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 victim 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.
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.
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Extinguishing Media:	SUITABLE: CO ₂ , dry chemical, alcohol resistant foam or aqueous extinguishing media. NON SUITABLE: Water.
Special Fire-Fighting Procedure:	Firefighters must use standard protective equipment including self-contained breathing apparatus, flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters 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 by spraying 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:	Keep unnecessary personnel away. Ensure adequate ventilation/exhaust extraction. Wear personal protective equipment. Eliminate all sources of ignition. Avoid contact with skin, eyes and inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
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:	Absorb with clay, sand, or other non-combustible material. Prevent entry into waterways, sewers, and confined areas.
Clean Up:	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover

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using pumps. The product is immiscible with water and will spread on the water surface. Containers in which spilt substance has been collected must be adequately labeled. Dispose of absorbed material in accordance with regulations preferable with burning. If the spill is small, wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste.

Section 7. Handling and Storage

Handling Precautions:

Provide good ventilation of working area (local exhaust ventilation if necessary). 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. Avoid contact with eyes and mucous. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release.

Storage Precautions:

Store in a cool, well-ventilated area. Keep container tightly closed, protected from light and potential sources of ignition. Store separated from foodstuffs or animal food.

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:

Plastic or synthetic rubber impermeable gloves. Chemical resistant gloves.

Eye Protection:

Safety glasses with side protection shield. Eyewash bottle with clean water.

Skin and Body Protection:

Clothes for chemical protection to avoid contact. Use of an impervious apron is recommended. Wear appropriate thermal protective clothing, when necessary

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

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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:	Pale blue to green or blue liquid
Upper/Lower Flammability:	N/A
Odor:	Fresh, camphoraceous, spicy, sweet
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:	332.1 mg/L (25°C)
Initial Boiling Point and Boiling Range:	N/A
Flash Point:	129°F / 54°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, heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatibility:	Oxidizing mineral acids, strong reducing agents, strong oxidizing agents.
Hazardous Byproducts:	Carbon monoxide and other unidentified organic compounds may be formed upon combustion
Other:	No hazardous decomposition products if stored and handled as indicated.

Section 11. Toxicological Information

Toxicological and Health Effects:	Nontoxic at established levels.
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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:	N/A
INGESTION:	Expected to be a low ingestion hazard.

Section 12. Ecological Information

TOXICITY:	Harmful to aquatic life with long lasting effects.
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. Do not allow the material to enter streams, sewers or other waterways.

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. Packaging, waste product and materials used for absorbing spills should be disposed of by ignition in accordance with international, national and local regulations.
Waste Disposal:	Waste disposal by ignition in accordance with international, national and local regulations. 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

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Stowage and Handling: N/A

Section 15. Regulatory Information

Product Regulations: N/A

Section 16. Other Information

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Initial of Editor: SDR

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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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