



# LIBERTY NATURAL PRODUCTS, INC.

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

## Section 1. Product and Company Identification

**Product Name:** Perilla Green  
**Product Code:** 1988  
**Description:** Essential Oil of Perilla Green  
**Product Use:** Industrial  
**Manufacturer:** Liberty Natural Products, 20949 South Harris Rd, Oregon City, OR 97045  
**Emergency Phone:** Liberty Natural Products: (800) 289-8427

## Section 2. Hazards Identification

**Category:** H226 Flammable liquid and vapor  
**Signal Word:** Warning  
**Ingestion:** H302 Harmful if swallowed  
**Health Risks:** N/A  
**Eye Contact:** N/A  
**Skin Contact:** H315 Causes skin irritation.  
**Environmental:** N/A  
**Pictograms:**



### PRECAUTIONARY STATEMENT:

P262 Do not get in eyes, on skin, or on clothing  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P301 + 312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
P301 + 330 + 331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P332 + 313 If skin irritation occurs: Get medical advice/attention  
P340 Remove person to fresh air and keep comfortable for breathing  
P362 Take off contaminated clothing if irritation persists

## Section 3. Composition and Information on Ingredients

**Chemical Name:** *Perilla frutescens crispata*  
**Physical State:** Liquid.  
**CAS #:** 68132-21-8  
**Impurities:** None.  
**Trade Secret Claim:** None.

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#### Section 4. First Aid Measures

<b>Eyes:</b>	Irrigate the eyes with copious volume of water for at least 15 minutes. Obtain medical advice if irritation persists or any sign of tissue damage is apparent.
<b>Skin Contact:</b>	Remove contaminated clothes. Obtain medical advice if irritation persists or any sign of tissue damage is apparent.
<b>Inhalation:</b>	Remove the person to fresh air and keep at rest. Obtain medical advice immediately.
<b>Ingestion in excess:</b>	Rinse mouth with water. Do not induce vomiting. Obtain medical advice.
<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

<b>Flammability:</b>	Flammable.
<b>Extinguishing Media:</b>	SUITABLE: CO <sub>2</sub> , dry chemical, or alcohol resistant foam NON SUITABLE: Water.
<b>Special Fire-Fighting Procedure:</b>	High temperatures can lead to high pressures inside closed containers. Cool closed containers with water if possible.
<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>	Wear appropriate equipment for a chemical fire including self-container breathing apparatus.

#### Section 6. Accidental Release Measures

<b>Personal Precautions:</b>	Keep unnecessary personnel away. Wear personal protective equipment. Use safety goggle (glasses) and nitrile gloves. The use of an appropriate respiratory protection may be required in exceptional areas. 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

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	and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.
<b>Containment:</b>	Absorb with clay, sand, or other non-combustible material. Prevent entry into waterways, sewers, and confined areas.
<b>Clean Up:</b>	Dispose of absorbent material and contaminated clothes or objects in accordance with regulatory instructions in force.

## Section 7. Handling and Storage

<b>Handling Precautions:</b>	Treat containers with respect to avoid damage. Measures should be taken to prevent materials from being splashed into the eyes or on the skin. This should include the wearing of eye shields and protective clothing. Smoking should not be permitted in areas where they are handled. To avoid fire hazards, products should not be heated with or exposed to open flames or other sources of ignition. During the introduction into the finished product ingredients should be normally maintained at relatively low temperatures.
<b>Storage Precautions:</b>	Store in tightly sealed and preferably full containers in a cool, dry and ventilated location, store separately from oxidizing materials. To protect from light, store in original container and use non-permeable container and glass container.
<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>	It is not normally required in well ventilated areas. The use of an appropriate respiratory protection may be required in confined or poor ventilated areas.
<b>Hand Protection:</b>	Chemical resistant gloves.
<b>Eye Protection:</b>	Goggles giving complete protection to eyes. Eyewash bottle with clean water.
<b>Skin and Body Protection:</b>	Clothes for chemical protection to avoid contact. Use of an impervious apron is recommended. Wear appropriate thermal protective clothing, when necessary
<b>Ingestion:</b>	Do not eat, drink and smoke while using.
<b>Industrial Hygiene:</b>	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

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remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

<b>OSHA Permissible Exposure Limits (PELs):</b>	N/A
<b>ACGIH Threshold Limit Values:</b>	N/A

### Section 9. Physical and Chemical Properties

<b>Appearance:</b>	Yellow liquid
<b>Upper/Lower Flammability:</b>	N/A
<b>Odor:</b>	Anise like odor
<b>Vapor Pressure:</b>	N/A
<b>Odor Threshold:</b>	N/A
<b>Vapor Density:</b>	N/A
<b>pH:</b>	N/A
<b>Relative Density:</b>	N/A
<b>Melting Point:</b>	N/A
<b>Freezing Point:</b>	N/A
<b>Solubility:</b>	Insoluble
<b>Initial Boiling Point and Boiling Range:</b>	N/A
<b>Flash Point:</b>	73 °C/163 °F
<b>Evaporation Rate:</b>	N/A
<b>Flammability Category:</b>	N/A
<b>Partition Coefficient:</b>	N/A
<b>Auto-ignition Temperature:</b>	N/A
<b>Decomposition Temperature:</b>	N/A
<b>Viscosity:</b>	N/A
<b>Specific Gravity:</b>	0.917-0.927

### Section 10. Stability and Reactivity

<b>Stability:</b>	Stable under normal circumstances. Avoid heat and ignition sources.
<b>Avoid:</b>	Excessive heat, open flames and other ignition sources.
<b>Incompatibility:</b>	Unknown
<b>Hazardous Byproducts:</b>	None in normal conditions
<b>Other:</b>	No hazardous decomposition products if stored and handled as indicated.

### Section 11. Toxicological Information

<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>	N/A
<b>INGESTION:</b>	Can be noxious

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## Section 12. Ecological Information

<b>TOXICITY:</b>	Harmful to aquatic life with long lasting effects.
<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>	No information available.
<b>MOBILITY IN SOIL:</b>	No information available.
<b>OTHER ADVERSE EFFECTS:</b>	N/A

## 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.

## Section 14. Transport Information

<b>UN Number:</b>	N/A
<b>UN Shipping Name:</b>	N/A
<b>Transport Hazard Class:</b>	N/A
<b>Packing Group Number:</b>	N/A
<b>Stowage and Handling:</b>	N/A

## Section 15. Regulatory Information

<b>Product Regulations:</b>	N/A
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## Section 16. Other Information

<b>Last Revised:</b>	1/17/2023	<b>Initial of Editor:</b> SDR
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*This information is provided for documentation purposes only.*

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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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