



**PERTINENT ECO-SOLUTIONS, INC.  
SAFETY DATA SHEET**

This Safety Data Sheet has been prepared to comply with the US OSHA Hazcom 2012 Standard.

**SECTION 1: IDENTIFICATION**

**Product Identifier:**

**Trade Name:** Pertinent Pro Silver-Bullet  
**SDS Date of Preparation:** March 3, 2023

**Recommended use of the chemical and restrictions on use:**

**Recommended use:** Pesticide  
**Restrictions on use:** None known

**Details of the Supplier of the Safety Data Sheet:**

**Manufacturer:** Pertinent Eco-Solutions, Inc.  
2800 Sumner Boulevard, Suite 136  
Raleigh, NC 27616  
**Information Phone Number:** (919) 676-8644

**Emergency Telephone Number:**

**Emergency Spill Information:** INFOTRAC: 1-800-535-5053 (North America)  
1-352-323-3500 (International)

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classification:**

Physical	Health
Not Classified	Not Classified

**Label Elements:**

None Required

**Other Hazards:** None known.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	%
Eugenol	97-53-0	<1

The specific identity and/or exact percentage of composition have been withheld as a trade secret.

**SECTION 4: FIRST-AID MEASURES**

**Description of First Aid Measures:**

**Eye:** Rinse thoroughly with water. Get medical attention if irritation occurs and persists.

**Skin:** Remove contaminated clothing. Wash contact area with soap and water. Get medical attention if irritation or symptoms of exposure develop. Launder clothing before re-use.

**Inhalation:** Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Keep the victim calm and warm. Get medical attention if symptoms develop.

**Most Important symptoms and effects, both acute and delayed:** Direct contact may cause mechanical eye irritation.

Inhalation of dust during preparation or processing of the product may cause respiratory tract irritation.

**Indication of any immediate medical attention and special treatment needed:** Immediate medical attention is not required.

## SECTION 5: FIRE-FIGHTING MEASURES

**Suitable (and Unsuitable) Extinguishing Media:** Use any media that is appropriate for the surrounding fire.

**Special Hazards Arising from the Chemical:** Not classified as flammable or combustible. During a fire, this product will burn and release oxides of carbon and fumes.

**Special Equipment and Precautions for Fire-Fighters:** Wear an approved, positive pressure, self-contained breathing apparatus, and full protective clothing. Cool fire exposed containers with water.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Avoid prolonged contact with eyes, skin, or clothing. Wear appropriate protective clothing. Avoid breathing dust generated during preparation and processing. Ventilate area.

**Methods and Material for Containment and Cleaning Up:**

During processing if wet material is spilled cover with an inert absorbent material and collect into an appropriate container for disposal. For cardboard, pick up and if contaminated place in appropriate container for disposal. Report spills and releases as required to appropriate authorities.

## SECTION 7: HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid breathing dust generated during preparation and processing. Use with adequate ventilation. Avoid prolonged contact with the eyes, skin, and clothing. Wear appropriate protective clothing when handling this material. Wash thoroughly after handling. Do not eat, drink, or smoke in the work area. Keep product away from heat and flames.

**Conditions for Safe Storage, Including any Incompatibilities:** Store in a cool, dry, well-ventilated location away from strong acids and incompatible materials. Keep away from extreme temperatures and direct sunlight.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Exposure Limits
Eugenol	None Established

**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to minimize exposures levels.

**Personal Protective Equipment:**

**Respiratory Protection:** None should be needed for normal use. In operations where exposure levels are excessive or if irritation is experienced, an approved respirator with dust/mist cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form, and concentration. Follow applicable regulations and good Industrial Hygiene practice.

**Skin Protection:** Impervious gloves are recommended to prevent skin contact. Contact your glove supplier for selection assistance.

**Eye Protection:** None required during the normal use of this product.

**Other Protective Equipment:** Impervious clothing is required to prevent skin contact and contamination of personal clothing. An eye wash facility and safety shower should be available in the work area.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b> Cardboard constructed of glue impregnated with an essential oil	<b>Vapor Pressure:</b> Not applicable
<b>Odor:</b> Characteristic odor	<b>Vapor Density (air = 1):</b> Not applicable
<b>Odor Threshold:</b> Not established	<b>Relative Density:</b> No data available
<b>pH:</b> Not applicable	<b>Solubility(ies):</b> Insoluble in water.
<b>Melting Point/Freezing Point:</b> Not established	<b>Partition coefficient: n-octanol/water:</b> Not applicable
<b>Boiling Point/Range:</b> Not applicable	<b>Auto-ignition Temperature:</b> Not applicable



<b>Flash Point:</b> Not applicable	<b>Decomposition Temperature:</b> Not applicable
<b>Evaporation Rate:</b> Not applicable	<b>Viscosity:</b> Not applicable
<b>Flammability (solid, gas):</b> Not applicable	<b>Flammable Limits: LEL:</b> Not applicable <b>UEL:</b> Not applicable

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** Not reactive

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Keep away from extremely high or low temperatures, direct sunlight, and open flames.

**Incompatible Materials:** Strong acids and strong bases.

**Hazardous Decomposition Products:** Thermal decomposition will produce oxides of carbon and fumes.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Potential Health Effects:**

**Eye:** Direct contact may cause mechanical (abrasive) eye irritation.

**Skin:** No adverse effects are expected during normal usage. Contact with dust during preparation or processing of the product may cause skin irritation.

**Inhalation:** Inhalation of dust during preparation or processing of the product may cause respiratory tract irritation.

**Ingestion:** Ingestion is unlikely for solid products. No adverse effects are expected.

**Chronic Hazards:** None known.

**Carcinogenicity:** None of the components of this product are listed as carcinogens by OSHA, IARC, and NTP.

**Acute Toxicity Values:**

Eugenol: Oral rat LD50- >2000 mg/kg, Inhalation rat LC50- >2.6 mg/L/4hr

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:**

Eugenol: 96 hr LC50 Danio rerio- 13 mg/L, 48 hr EC50 Daphnia magna- 1.13 mg/L, 72 hr EC50 Aquatic algae- 24 mg/L

**Persistence and Degradability:** Eugenol is readily biodegradable.

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data available

**Other Adverse Effects:** None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose in accordance with all local, state, and federal regulations.

**SECTION 14: TRANSPORTATION INFORMATION**

	<b>UN Number</b>	<b>UN Proper Shipping Name</b>	<b>Hazard Class(s)</b>	<b>Packing Group</b>	<b>Environmental Hazards</b>
<b>US DOT</b>	None	Not regulated	None	None	Not applicable
<b>IMDG</b>	None	Not regulated	None	None	Not applicable
<b>IATA/ICAO</b>	None	Not regulated	None	None	Not applicable



**Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code:** Not applicable

**Special Precautions for User:** Not applicable

<b>SECTION 15: REGULATORY INFORMATION</b>
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**U.S. FEDERAL REGULATIONS:**

**CERCLA 103 Reportable Quantity:** This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

**SARA TITLE III:**

**Hazard Category for Section 311/312:** See OSHA Hazard Classification in Section 2.

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None.

**Section 302 Extremely Hazardous Substances (TPQ):** None

**EPA Toxic Substances Control Act (TSCA) Status:** All of the ingredients in this product are listed on the TSCA inventory or exempt.

<b>SECTION 16: OTHER INFORMATION</b>
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**Date of Current Revision:** March 3, 2023

**Revision Summary:** Updated Section 2, 3, 4, and 11.

**Date of Previous Revision:** February 17, 2023

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This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Pertinent Eco-Solutions, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.