



**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.
147 Technology Parkway
Peachtree Corners, GA 30092
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

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



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

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

SECTION 15: REGULATORY INFORMATION

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.

SECTION 16: OTHER INFORMATION

Date of Current Revision: March 3, 2023

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

Date of Previous Revision: February 17, 2023

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.