

**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: Vetforce™ Flying Insect Spray
SDS Date of Preparation: May 19, 2021; revised September 9, 2024

Recommended use of the chemical and restrictions on use:

Recommended use: Fly control in animal facilities
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	Environment
Not Classified	Eye Irritant Category 2 (H319) Skin Sensitization Category 1 (H317)	Not Classified

Label Elements:

Warning



Hazard Phrases

May cause an allergic skin reaction.
 Causes serious eye irritation.

Precautionary Phrases

Avoid breathing mist or vapors.
 Wash thoroughly after handling.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves and eye protection.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical attention.
 If on skin: Wash with plenty of water.
 If skin irritation or rash occurs: Get medical attention.
 Wash contaminated clothing before reuse.
 Dispose of contents and container in accordance with local and national regulations.

Other Hazards: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	%
Isopropyl alcohol	67-63-0	1-5
Geraniol	106-24-1	<1
Cedarwood oil	68990-83-0	<1
Citronella oil	8000-29-1	<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: Flush eyes thoroughly with water for several minutes, while holding the eyelids apart. Remove contact lenses if easy to do so and continue flushing for several more minutes. Get medical attention if irritation persists.

Skin: Flush skin thoroughly with water for several minutes. Get medical attention if irritation or rash occurs. Remove and launder contaminated 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. Get medical attention if symptoms develop.

Most Important symptoms and effects, both acute and delayed: May cause moderate eye irritation. May cause skin sensitization. Inhalation of mists or vapors 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: This product is not classified as flammable or combustible. Under fire conditions, this product may produce oxides of carbon and other irritating compounds.

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 contact with eyes, skin or clothing. Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles and respirator if needed. Avoid breathing mists or vapors. Ventilate area.

Methods and Material for Containment and Cleaning Up:

Cover with an inert absorbent material and collect into an appropriate container for disposal. Report spills and releases as required to appropriate authorities.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid breathing vapors, aerosols and mists. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Always wear impervious gloves, chemical safety goggles and 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. Keep containers closed when not in use.

Conditions for Safe Storage, Including any Incompatibilities: Store in a container in a cool, dry, well-ventilated location away from oxidizers and incompatible materials. Keep container tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Exposure Limits
Isopropyl alcohol	200 ppm TWA, 400 ppm STEL ACGIH TLV 400 ppm TWA OSHA PEL
Geraniol	None Established
Cedarwood oil	None Established
Citronella Oil	None Established

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

Personal Protective Equipment:

Respiratory Protection: In operations where exposure levels are excessive, 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: Chemical safety goggles should be worn to prevent eye contact.

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: Colorless liquid	Vapor Pressure: Not available
Odor: Slight alcoholic odor	Vapor Density (air = 1): Not available
Odor Threshold: Not established	Relative Density: No data available
pH: No data available	Solubility(ies): Soluble in water.
Melting Point/Freezing Point: 0°C (32°F) (approximate)	Partition coefficient: n-octanol/water: No data available
Boiling Point/Range: 100°C (212°F) (approximate)	Auto-ignition Temperature: Not available
Flash Point: No data available	Decomposition Temperature: Not available
Evaporation Rate: Not available	Viscosity: Not available
Flammability (solid, gas): Not applicable	Flammable Limits: LEL: Not available, UEL: Not available

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 heat and flames.

Incompatible Materials: Oxidizing agents, bases, and acids.

Hazardous Decomposition Products: Thermal decomposition will produce oxides of carbon and other irritating compounds.

SECTION 11: TOXICOLOGICAL INFORMATION
Potential Health Effects:

Eye: May cause moderate eye irritation and burns with pain, tearing, and redness.

Skin: Prolonged or repeated exposure may cause skin irritation and dryness. May cause an allergic skin reaction (sensitization).

Inhalation: Inhalation of mists or vapors may cause nose and upper respiratory tract irritation.

Ingestion: Swallowing may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Chronic Hazards: None known.



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

Acute Toxicity Values:

Isopropyl alcohol: Oral rat LD50- 5840 mg/kg, Skin rabbit LD50- 16400 mg/kg, Inhalation rat LC50- 72.6 mg/L/4hr
Geraniol: Oral rat LD50- 3600 mg/kg, Skin rabbit LD50- >5000 mg/kg
Cedarwood oil: Oral rat LD50->5000 mg/kg, Skin rabbit LD50- >5000 mg/kg
Citronella Oil: Oral rat LD50- 300-<2000 mg/kg, Skin rat LD50->2000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Isopropyl alcohol: 96 hr LC50 Fathead minnow (flow through)-9640 mg/L, 48 hr EC50 Daphnia magna- 13299 mg/L
Geraniol: 96 hr LC50 Danio rerio- 22 mg/L, 48 hr EC50 Daphnia magna- 10.8 mg/L, 72 hr EC50 Desmodesmus subspicatus- 13.1 mg/L
Cedarwood oil: 96 hr LL50 Cyprinus carpio- 6.8 mg/L, 48 hr EL50 Daphnia magna -0.76 mg/L
Citronella Oil: 96 hr LL50 Oncorhynchus mykiss-7.5 mg/L, 48 hr EL50 Daphnia magna- 6 mg/L

Persistence and Degradability: Isopropyl alcohol and Geraniol are 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 of this product are listed on the TSCA inventory or exempt.

SECTION 16: OTHER INFORMATION

Date of Current Revision: May 19, 2021

Revision Summary: New SDS

Date of Previous Revision: N/A

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.