



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

September 2, 2021

Mr. Micah Reynolds  
Sr. Regulatory Consultant  
Synergy Semiochemicals Corporation  
c/o Technology Sciences Group Inc.  
1150 18th Street, N.W.  
Washington, DC 20036

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 – Revising container size; corresponding adjustment to number of units/acre; updating company address; changing number of days of effectiveness from “70-100 days” to “60-90 days.”  
Product Name: Synergy Shield Verbenone  
EPA Registration Number: 90515-2  
Application Date: 7-30-21  
OPP Submission Number: 1073145  
OPP Case Number: 00314622

Dear Mr. Reynolds:

The U.S. Environmental Protection Agency (EPA) is in receipt of your application for notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Biopesticides and Pollution Prevention Division (BPPD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The labeling submitted with this application has been stamped “Notification” and will be placed in our records. You must submit one (1) copy of the final printed labeling with the modifications.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance Assurance.

Page 2 of 2

EPA Reg. No. 90515-2

OPP Submission No. 1073145

OPP Case No. 00314622

If you have any questions, please contact Nina Naimy via email at [naimy.nina@epa.gov](mailto:naimy.nina@epa.gov).

Sincerely,

A handwritten signature in blue ink that reads "Andrew C. Bryceland". The signature is fluid and cursive, with the first name being the most prominent.

Andrew Bryceland, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

# Synergy Shield Verbenone

**ACTIVE INGREDIENT:**

Verbenone, 4,6,6-trimethyl-bicyclo(3.1.1) hept-3-en-2-one ..... 97.0%

**OTHER INGREDIENTS:** ..... 3.0%

**TOTAL:** ..... 100.0%

## NOTIFICATION

90515-2

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

09/02/2021

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

FIRST AID	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse gently with water for 15 – 20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.	

EPA Reg. No.: 90515-2

EPA Establishment No.: 90515-CAN-001

**Manufactured by:** Synergy Semiochemical Corporation  
[7572 Progress Way,](#)  
[Delta, BC, V4G 1E9, Canada](#)

**Batch Code:** [\(Note to reviewer: Batch code may be printed directly on container or appear on label.\)](#)

- Net Contents:**
- 10 units; (.98 g) [\(5.88 g\)](#) per unit; XX ounces total
  - 50 units; (.98 g) [\(5.88 g\)](#) per unit; XX ounces total
  - 100 units; (.98 g) [\(5.88 g\)](#) per unit; XX ounces total

- Deleted: 7061 Merritt Avenue
- Deleted: Burnaby
- Deleted: 5J
- Deleted: 4R7
- Formatted: Font: 9 pt, Italic
- Deleted: 7.84
- Deleted: 7.84
- Deleted: 7.84
- Deleted: 4a
- Deleted: ne 13
- Deleted: 16

## PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS – CAUTION:** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with liquid contents. Do not puncture reservoir. Prior to use, open storage bag in a well ventilated area and allow any accumulated vapors to vent. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS:** For terrestrial uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean highwater mark, except under forest canopy. Do not contaminate water when disposing of equipment washwaters or rinsate.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For application to pine trees only.

**Host Tree Stands:** Stands containing pine trees of any species, including limber, loblolly, lodge pole, pinyon, ponderosa, shortleaf, Virginia, western white, white and whitebark. Use on trees in forests; municipal and shade tree areas; recreational areas such as campgrounds, riparian areas, golf courses, parks and parkways; ornamental and shade tree plantings; suburban areas; and rights of way and other easements.

**Pests:** Verbenone is an antiaggregation pheromone for the mountain pine beetle (*Dendroctonus ponderosae*), southern pine beetle (*Dendroctonus frontalis*), western pine beetle (*Dendroctonus brevicomis*) and other bark beetles. Synergy Shield Verbenone deters mass attack in tree stands and protects susceptible trees.

### Application Rate:

#### Placement on trees:

Place Synergy Shield Verbenone on north face of susceptible trees by stapling individual pouches at 6 to 12 feet high. Attach to tree using flashing on device being careful **not to** puncture the reservoir.

#### Individual trees and area 1 acre or less:

Place 2 to 6 Synergy Shield Verbenone on each tree, depending on risk of attack and size of tree. For large trees over 24 inches diameter, add 1 more Synergy Shield VERBENONE for each additional 6 inches in diameter, 3 feet above the previous Synergy Shield VERBENONE. (.98g)

Place 1 or 2 Synergy Shield Verbenone on each tree, depending on risk of attack and size of tree. For large trees over 24 inches diameter, add 1 more Synergy Shield

Deleted: 4a

Deleted: ne 13

Deleted: 16

VERBENONE for each additional 12 inches in diameter, 3 feet above the previous Synergy Shield VERBENONE. (5.88g)

Deleted: 7.8

Perimeter Protection:

On contour of perimeter, place 1 to 4 Synergy Shield Verbenone on each susceptible tree, depending on size. Continue placing Synergy Shield Verbenone on susceptible trees to a depth of 45-120 feet from the perimeter. (0.98g)

On contour of perimeter, place 1 Synergy Shield Verbenone every 15 feet along length of perimeter. Move in 30 feet and repeat with a second line. (5.88g)

Deleted: 7.8

Forested stands over 1 acres [Optional Text: "grid placement"]:

Minimum dose (for .98 g units) , 120 Synergy Shield Verbenone /acre. At low beetle pressure, place 1 Synergy Shield Verbenone /tree in a grid pattern [Optional Text: "with 10 foot centers"].

Maximum dose (for .98 g mg units), 410 Synergy Shield Verbenone /acre. At high beetle pressure, place 1- 2 Synergy Shield Verbenone per susceptible tree.

Minimum dose (5.88g units) 25 Synergy Shield Verbenone /acre. At low beetle pressure, place 1 Synergy Shield Verbenone /tree in a grid pattern [Optional Text: "with 46 foot centers"].

Deleted: 7.8

Deleted: 0

Maximum dose (5.88g units), 75 Synergy Shield Verbenone /acre. At high beetle pressure, place 1-2 Synergy Shield Verbenone /tree in a grid pattern [Optional Text: "with 20 foot centers"].

Deleted: 7.8

Deleted: 60

**Timing:** Place Synergy Shield Verbenone at least 2 weeks prior to expected flight of the pest. Under normal weather conditions Synergy Shield Verbenone is effective for 60 - 90 days. Use a second treatment as needed.

Deleted: 7

Deleted: 10

**Notes:** For best results, remove all beetle-infested trees on property before application. Once 40% of the trees in the area are infested, product efficacy may be reduced. May be used with pheromone baited traps to reduce population pressure.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store in sealed storage bag below 32°F (0°C) or as cold as possible.

**Pesticide Disposal:** Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Non-refillable device. Do not reuse or refill this device. Place empty bag in trash.

Deleted: 4a

Deleted: ne 13

Deleted: 16