



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

October 25, 2024

Wendy McCombie  
wendy.mccombie@tsgconsulting.com  
SYNERGY SEMIOCHEMICAL CORPORATION

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment - minor label changes including sizes in imperial values and correcting numerical errors to Synergy Shield Verbenone  
Product Name: Synergy Shield Verbenone  
Admin Number: 90515-2  
EPA Receipt Date: 11/05/2023  
Action Case Number: 00491615

Dear Wendy McCombie:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

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 FIFRA and is subject to review by 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 statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have questions, please contact Sydnie Vergara via email at [vergara.sydnie@epa.gov](mailto:vergara.sydnie@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "James Parker". The script is elegant and cursive, with the first letters of "James" and "Parker" being capitalized and prominent.

James Parker, Team Leader  
BPB, BPPD  
Office of Pesticide Programs

Oct 25, 2024

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 90515-2

# 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%

**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 Semiochemicals 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; 0.035 oz (0.98 g) per unit; 0.35 ounces total
- \_\_\_ 50 units; 0.035 oz (0.98 g) per unit; 1.75 ounces total
- \_\_\_ 100 units; 0.035 oz (0.98 g) per unit; 3.5 ounces total
- \_\_\_ 10 units; 0.207 oz (5.88 g) per unit; 2.07 ounces total
- \_\_\_ 50 units; 0.207 oz (5.88 g) per unit; 10.35 ounces total
- \_\_\_ 100 units; 0.207 oz (5.88 g) per unit; 20.7 ounces total
- \_\_\_ 10 units; 0.277 oz (7.84 g) per unit; 2.77 ounces total
- \_\_\_ 50 units; 0.277 oz (7.84 g) per unit; 13.85 ounces total
- \_\_\_ 100 units; 0.277 oz (7.84 g) per unit; 27.7 ounces total

## 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. (Note to reviewer: These use directions are for the 0.035 oz/0.98g size.)

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

VERBENONE for each additional 12 inches in diameter, 3 feet above the previous Synergy Shield VERBENONE. *(Note to reviewer: These use directions are for the 0.207 oz/5.88g or 0.277 oz/7.84g size.)*

Perimeter Protection:

On contour of perimeter, place 1 to 4 Synergy Shield Verbenone every 15 feet along the length of the perimeter and on each susceptible tree, depending on size. Continue placing Synergy Shield Verbenone bubble caps deeper into the stand on susceptible trees every 30 feet to a depth of 60-120 feet from the perimeter. *(Note to reviewer: These use directions are for the 0.035 oz/0.98g size.)*

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. *(Note to reviewer: These use directions are for the 0.207 oz/5.88 g or 0.277 oz/7.84g size.)*

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

Minimum dose *(Note to reviewer: These use directions are for 0.035 oz/0.98 g units)*, 120 Synergy Shield Verbenone /acre. At low beetle pressure, place 1 Synergy Shield Verbenone per tree in a grid pattern.

Maximum dose *(Note to reviewer: These use directions are for 0.035 oz/0.98 g units)*, 410 Synergy Shield Verbenone /acre. At high beetle pressure, place 1- 2 Synergy Shield Verbenone per susceptible tree.

Minimum dose *(Note to reviewer: These use directions are for 0.207 oz/5.88 g or 0.277 oz/7.84 g units)* 25 Synergy Shield Verbenone /acre. At low beetle pressure, place 1 Synergy Shield Verbenone /tree in a grid pattern.

Maximum dose *(Note to reviewer: These use directions are for 0.207 oz/5.88 g or 0.277 oz/7.84 g units)*, 75 Synergy Shield Verbenone /acre. At high beetle pressure, place 1-2 Synergy Shield Verbenone /tree in a grid pattern.

**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 - 100 days. Use a second treatment as needed.

**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.